SALES ORIER

Sold To:

S. A. Empresa de Viacan Aerea

Rio Grandense- VARIG

WRevised:

13 May 1963

8. 0. No:

600-8-88

Reference:

(a) VARIG P.O. 10-2167 (b) Convair S.O. 600-8-85

(c) HIM No. 3-199

#(d) Memo Hendricks to Digges 13 May 1963 W. G. No:

31,745

REMOVAL OF HYDROLOCK CYLINEES FROM VARIO 990A ATRCHAFT, PRODUCTION NO. 20, AND RELISTALLATION OF HYDROLOCK CYLINDELS DEMOVED FROM VARIO NO. 19 AIRCRAFT

- 1. In accordance with Reference (a) above, all concerned are hereby authorized to remove all first class seat Hydrolock Cylinders from VARIG aircraft 990A, Production No. 20, Registration No. PP-VJG, and deliver same to C. B. Edmonds, VARIG Airlines. San Diego, California.
- 2. Upon completion of the task outlined in paragraph 1 above, all concerned are hereby authorized to install the first class seat Hydrolock Cylinders previously removed from 990A aircraft, Production No. 19, which were removed in accordance with Reference (b) Sales Order 600-8-85, Work Order 31739. Perform mechaning and with Reference (b) Sales Order 600-8-85, Work Order 31739. Perform mechaning and with Reference (c) Sales Order 600-8-85, Work Order 31739. Perform mechaning and with Reference (c) Sales Order 600-8-85, Work Order 31739. Perform mechaning and the sales of the break over latches on all cylinders removed from A/C Production No. 19 as directed by VARIG's C. B. Edmonds. A maximum of 100 manhours is authorized hereunder.
 - 3. In accordance with Reference (d) above, all concerned are hereby authorized to invoice VARIG in the amount of \$1,173 covering the task as described in paragraphs 1 and 2 which was accomplished on Friday, April 26, 1963. Please forward invoices when ready to attention to G. D. Clark, M/Z 11-00.

GPC: an

*Revised to add Ref.(d) amend para 2 and add pare 3. GDC:am

cc: S. D. File

B. H. Wilbur

913

RECENT

MAY 16'63

for a H biggs Director of Contracts

*Revised

S. A. Empresa de vascao Aeres

Rio Grand ase - WAREG

- ind-curbine of as follows;

(MNOO TJ-15) Turning Oil

Production No. 19, PP V (12 553) 41 - 104 640 pa 114 25,143 222. 11 April 1963 (ENCO T:-15)

Charges for above fuel and oil are as follows: Thei \$.12:55 per galles 43. 011 \$5.05 per rallon

Revised to arend para 1 and add para 3. GDC:an

914 1021

SALES OFDER

Sold To:

S.A. Empresa de Viacao Aerea

Date:

26 April 1963

Rio Grandense - VARIG

S. O. No:

600-8-87

Reference:

(a) Letter Agmt. 11-0-750

accepted and agreed to 4/25/63 W. O. No:

31.744

FERRY OF VARIO 990 A AIRCRAFT FRODUCTION NO. 20, FP-VJG FROM SAN DIEGO TO PORTO ALEGRE, BRAZIL

- 1. In accordance with reference (a) above, all concerned are hereby authorized to take steps necessary to ferry VARIG 990A Aircraft, Production No. 20, Registration No. PP-VJG from San Diego, California to Porto Alegre, Brazil on or about April 27.
- 2. Convair is to furnish a Flight Captain and a Senior Flight Engineer for the purpose of conducting the ferry flight subsequent to redelivery of said aircraft to VARIG.
- 3. VARIG will provide or reimburse Convair for the first class return air transportation for Convair's flight personnel from Porto Alegre, Brazil to San Diego, California, upon completion of the ferry flight.
- 4. VARKG is to furnish a copilot, provide all fuel, oil and maintenance for the aircraft and pay all landing fees in connection with said ferry flight.
- 5. Upon completion of delivery of the aircraft to Porto Alegre, Brazil and return of Convair Flight Captain and Senior Flight Engineer to San Diego, California, VARIG is to be invoiced in the amount of \$2,255 representing salaries, fringe benefits, per . diam and other expanses of Convair personnel conducting the ferry flight.
- 6. VARIC has agreed to indemnify and save Convair harmless from all loss, costs, etc., in connection with the ferry flight.

RECFIVED

APR 30'63

CDC:am

cc: S. O. File

Lag No. 833

Director of Contracts

SALES ORDER

***R vised: Filevised:

30 August 1963

S. A. Empresa de Vincao Aerea

Donat

25 June 1953 24 April 1963

Rio Grandense - VARIC

S. O. Nos

600-8-86

Reference: (a) Later Agmt. betwn VARIG and GD/Convair 11-0-747 accepted on 18 Apr 1963

W. O. No.

31, 742

(b) S.O. 600-8-84 (Ferry of VARIG 990, Production No. 191

on (c) August 16 latter, R. B. Freeman, Varig to C. D. Chark, 60/Convers

SUPPLEMENTARY FLIGHT TRAINING IN BRAZIL FOR VARIG

- i. In accordance with Reference (a) above, all concerned are authorized to furnish a second Convair pilot instructor and a second Convair flight engineer instructor to assist VAREG in the 990 flight training program in Porto Alegre. Brazil. Said pilot instructor and flight engineer conducted the ferry of VARIG aircraft 990. production No. 19 to Porto Alagra. Brazil in accordance with Reference (b) above-
- 2. Said Convair instructors are authorized to side in the cockpit of the nireralt during passenger flighte.
- B. VARIG shall be invoiced for the above services as follows:

Commencing on 16 April 1963, \$3, 990 per month or pro rate portion thereof for the pilos instructor, and \$3,030 per month or pro rate portion there of for flight engineer instructor, to and including June 22 the date the instructors returned to Said charges will be prorated on the basis of a 10 day month.

San Mego after completion of the supplemental flight training program

- 4. VARRG shall furnish or reimburse Convair for first-class return air transportation for Convair's pilot and flight engineer instructor, upon completion of the flight restaing program.
- 37. Accounting Department is instructed to prepare involves covering the above services and forward same to Contracts Department for transmittal to VARIG.

GDC am

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on deviced to add not fell and para Havised to add para. 7. CDC: jaw &

cc: W. B. Harwell

log No. 817 1146 1516 1557

Director of Contracts

11-6

WO: 31.742 8/22/63

- **6. The Convair pilot instructor and Convair flight engineer instructor whose services were covered hereto were Messrs. A. P. Wilson and L. Knudsen. Upon termination of their services in accordance with paragraph 3, above, Varig provided the Convair pilot instructor and Convair flight engineer instructor with first class airline tickets from Porto Alegre, Brazil to San Diego, California: Therefore, meeting the terms of paragraph 4, above.
- *** 7. This sales order is cancelled herewith and no further charges are authorized hereunder.

Sold To:

SALES ORDER

S. A. Empresa de Viacao Aerea Date: 19 April 1963

Rie Grandense - VARIG

S. O No: 600-8-85

Reference: (a) VARIG P.O. #10-2164

*(b) Memo D. H. Digges from W. O. No: 31739

A. L. Hendricks dtd. 4/18/63

(BIN 3-149)

REMOVAL OF HYDROLOCK CYLINDERS FROM FIRST CLASS SEATS IN 990A AIRPLANE, PRODUCTION NO. 19, REGISTRATION NO. PP-VJF

- 1. In accordance with Reference (a) above, all concerned are hereby authorized to remove all first class seat Hydrolock Cylinders, leaving control arms on the seats, from aircraft 990A. Production No. 19, Registration No. PP-VJF, and deliver name to Mr. C. B. Edmonds. U. S. Maintenance Manager, Varig Airlines. A maximum of 50 manhours is authorized hereunder.
- \$2. In accordance with Reference (b) above, the Accounting Department is hereby authorized to invoice VARIG in the amount of \$376.00 representing costs plus profit for the task involved in paragraph I above.

GDC am *Revised to add Ref. (b) and add para 2. GDC; am &

ces S. O. File

Log No. 742 810

Director of Contracts

SALES ORDER

Sold To:

S. A. Empresa de Viacao Aerea

Revised: Date: 30 August 1963 8 April 1963

Rio Grandense - VARIG

S. O. No:

600-8-84

Reference:

(a) Letter Agreement between

VARIG and GD/Convair accepted

W. O. No:

31732

and agreed to 1 April 1963

FERRY OF VARIG 990 AIRCRAFT, PRODUCTION NO. 19. PP-VJF FROM SAN DIEGO TO PORTO ALEGRE, BRAZIL

- 1. In accordance with Reference (a) above, all concerned are hereby authorized to take all steps necessary to ferry Varig 990 aircraft, Production No. 19, Registration No. PP-VJF, from San Diego, California, to Porto Alegre, Brazil, on or about Thursday, April 12.
- 2. Convair is to furnish a Flight Captain and a Senior Flight Engineer for the purpose of conducting the ferry flight subsequent to redelivery of said aircraft to VARIG.
- 3. VARIG will provide or reimburse Convair for the first class return air transportation for Convair's flight personnel from Porto Alegre, Brazil to San Diego, California upon completion of the ferry flight.
- 4. VARIG is to furnish a copilot, provide all fuel, oil and maintenance for the aircraft and pay all landing fees in connection with said ferry flight.
- 5. Upon completion of delivery of the aircraft to Porto Alegre, Brazil and return of Convair Flight Captain and Senior Flight Engineer to San Diego, California, VARIG is to be invoiced in the amount of \$2,255 representing salaries, fringe benefits, per diem, and other expenses of Convair personnel conducting the ferry flight.
- 6. VARIG has agreed to indemnify and save Convair harmless from all loss. costs, etc., in connection with the ferry flight.
- @ 7. This sales order is cancelled herewith and no further charges are authorised hereunder.

GDC:am a Revised to add pura. 7. GDC: jaw Ad

cc: S. O. File

Log No. -725- 1556

Der D. H. Digges
Director of Contracts

SALES ORDER

Sold To: S. A. Empresa de Viação Aerea

Rio Grandense - VARIG

TITLE ! BRevised: 10 April 1963 1 April 1963

Reference:

(a) Verbal request E. B. Edmonds,

VARIG, to E. L. McDonald, Convair 4(b) VARD3 P O #10-2165

W. O. No.

S. O. No:

31727

600-8 83

31738

LOADING OF VENDOR AND CONVAIR SPARES ABOARD MODEL 30A, PRODUCTION NOS. 13/19/20

- 1. In accordance with Reference (a) above, all concerned are hereby authorized to assist VARIG personnel in loading 990 vendor and Convair proprietary spares aboard aircraft Model 30A, Production Nos 13/19/20. All work relating to this task is to be charged to Work Order 31727_
- 2. All concerned are authorized to assist VARIG in loading CFE equipment, consisting of Sell manufactured galleys, aboard aircraft Model 30A, Production Nos. 13/19/20 All work relating to this task is to be charged against Work Order 31738.
- seg. Fash described in paragraph 2 was completed on all three aircraft as of Wednesday, April 24, 1963.
- Accounting Department is hereby instructed to invoice VARIO in the amount of \$6,183 covering the task described in paragraph 2 and in accordance with VARIA Furchase Order #10-2165, Reference (b) above.

RECEIVED

APR 30'63

GDG am

*Periped to add Reference (b). GDC:am enRevised to add paras. 3 and 4. GDC:an

car Distribution

T. J. Ellion

S. O. File

Log No. San 743 832

DELT . W Digges

Reference:

####Revised: 30 August 1963

SAL IS ORDER

S. A. Empress or Viscas Aprea Sold to

Rio Grandense - VARIG

(a) Letter Agreement blwn VAREG Airlines & General Dynamics

did 3/22/63

FRevised; 23 April 196)

LE March 196

5. O. No. 600.8 -Az

V C 113 737

FLIGHT TRAINING IN BRAZIL FOR VARIO

3) Mil to V. I. Helbanid, This from Mchaebe, Variet II f

- i. In accordance with Reference (a) above all conserned are such rised to fucilish one (I) CD/Convair Pilot Instructor and one (I) CD/Convair Flight Engineer Instructor to accompany the first redelivered modified 990A alreadt to forto Alegre. Brazil and remain for a period of approximately three mortes to seast VARIC in Flight Training Program. Said Convair instructors are without is to ride in the cockpit of the aircraft on scheduled passenger revenue flights
- 2. VARIO shall be invoiced for the above services as follows:
 - \$3, 990 per month or pro rata portion there I for the Pilot fretructor are \$3, 030 per month or pro rata portion thereof for Flight Engineer instructor. Tuese charges will be prorated on the bands of a 30-day renth
- 3. PARIG shall furnish or reimbuses Convair for first-class ration Additional portation for Convair's Pilot and Flight Engineer Instructors upon completion of the fight training program.
- 94. Charges for the services itemised in paragraph 2 are to commence on April 2. 1953.

The Piters Springer that Springer's purities were being with to the or a continue this 9, 1903 the date instruction extended to Sax Diago, decembling in incurrence to bill World Knowledgely in the next invoice against our. (a)

Instructed to August 4, 463;

cany. Accounting is instructed to bill Varig for the pilot instructor thru August 1964. the date his nervices were terminated, in accordance with para. 2.

8. Fleune noe page 2.

GDC:ms Revised to amend para 2 and to add para 4. GDC am

Log No. 667 122-1284 1454 1555

ned Bevised to said pares. Year 1 1000 jan 2-

Director X Contracts

W. Bertland, C. Atte., 108:

GENERAL DINAMICS/CONVAIR

SALES ORDER

PAGE 2

Sold to:

S. A. Empresa de Viacac Agrea

S. O.:

600-8-82

Fic Grandese - VARIG

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31.737

B. Tyre the termination of the flight maginer instructor's services leave 9, 1967, the product of the pilet instructor's services of August 6, 1967, the product will Charlest product the instructor, and 0. J. Maintenanth, Flight augment the product of the Party Alapse, Brazil to he August California, and the majorist that we show with party 3 above. Transportation from the August to St. Majoris in the majorist than the August of St. Majoris the Majoris and Carrier According about 5 involves for a same classical departs of the same class of the same cla

9. This sales order is cancelled herewith and no further charges are authorized hereunder.

swam Revised to add para. 9. GDC: jaw / iii

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SALES ORDER

Sold to:

S. A. Empresa de Viacao Aerea

21 March 1963 Date:

Rio Grandense - VARIG

S.O. No. 600-8-81

Reference:

(a) Verbal request from G.G. Herzfeldt

Director of Maintenance

W.O. No. 31-313

REMOVAL OF PASSENGER SEATS FROM MODEL 30 PRODUCTION NO. 13 FOR ADVANCE SHIPMENT TO BRAZIL

1. In accordance with Reference (a) above all concerned, including but not limited to Departments 48-01 and 171, are hereby instructed to remove the following item from VARIG 990, Aircraft 10-13 and deliver to Mr. Herzfeldt for advance air shipment to Brazil:

One double first class seat, S/N 5, from Production No. 10-13, P/N 30-94553-883.

- 2. The above item is to be shown as a shortage on the equipment list with the following statement, "This item removed from the aircraft for advance shipment to Brazil at customer's request".
- 3. All labor charges relating to this task and Work Order No. 31-313 must reference this Sales Order No. 600-8-81.

GDC:mg

Log No. 636

Director of Contracts

SALES ORDER

Sold to:

S.A. Empresa de Viacao Aerea

Rio Grandense - VARIG

S.O. No. 600-8-80

Date: 19 March 1963

Reference: (a) Telephone request from

C. B. Edmonds

W.O. No. 31,000 Series

CUSTOMER VENDED EQUIPMENT

- 1. All concerned are hereby authorized to receive 3 each Flight recorders, Convair P/N 97-31501-003 and vendor P/N 100600-200-9 from GD/Convair Service Parts and install in VARIG aircraft 30A, Production Nos. 13, 19 and 20 as customer vended equipment.
- 2. The detail specification and handbooks shall not be revised to include this equipment.

GDC:mg			
Log No.	628		

for D. H. Digges

Director of Contracts

GENERAL DYNAMICS/GUNYAIN

SALES ORDER

Sold to:

S. A. Empresa de Viacao Aerez

Rio Grandense (VARIG)

Date: 14 March 1963

S.O. No. 600-8-79

W. O. No. 31709

RECYCLING OF VENDED ITEMS FOR UPDATING, INSPECTION. RECERTIFICATION AS REQUIRED

- 1. This Sales Order authorizes departments concerned to take whatever action is necessary to rotate all vended items that require updating or inspection prior to submittal of aircraft Production Nos. 13, 19 and 20 to the customer. This authorization is limited to life rafts, life vests and CO2 cylinders installed in life rafts.
- 2. This activity is to be accomplished in accordance with program schedule 4EJ-512.
- 3. Contract delivery schedules must not be affected by the work performed pursuant to this authorization.

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Do D. H. Digges Director of Contracts

SALES ORDER

Sold to: REAL S/A-Transportes Aereos and

Empresa de Transportes Aerovias

Brazil S/A

S. A. Empresa de Viação Aerea

Rio Grandense (VARIG)

Date: 11 March 1963

S. O. No. 600-8-78

W.O. No. 31,000 Series

Reference: (a) Amend. No. 9 to Purchase Agreement btwn Convair & VARIG dtd 3/1/63

SERVICES, TRAINING, ETC.

- 1. In accordance with Reference (a) above, all concerned are hereby authorized to provide VARIG with services, etc. as follows:
 - a) Field service representation in Brazil for a period of 12 months after delivery of VARIG's third 990 aircraft.
 - b) A maintenance training program at Convair-San Diego consisting of one course made up of two classes. Instruction not to exceed 960 instructor hours.
 - c) Provide VARIG with one reproducible copy of Service Training Study Guide plus one copy of same to each of VARIG's trainees along with appropriate training material.

GDC:mg

Log No. 538

D. H. Digges
Director of Contracts

REAL/VARIG MINUTES

15 March 1963

Reference: (a) Amend. No. 9 to Purchase Agreement between Convair and Varig dated 3-1-63

(b) Sales Order No. 600-8-78 dated 11 March 1963

Subject:

SERVICES, TRAINING, ETC.

- 1. In accordance with Reference (b) above, all concerned are hereby authorized to provide Varig with services as follows:
 - a. Field Service representation in Brazil for a period of 12 months after delivery of Varig's third 990 aircraft.
 - b. A maintenance training program at Convair-San Diego consisting of one course made up of two classes. Instruction not to exceed 960 instructor hours.
 - c. Provide Varig with one reproducible copy of Service Training Study Guide plus one copy of same to each of Varig's trainees along with appropriate training material

ACTION: Engineering to proceed accordingly.

A. J.Savard

880/990 Program Manager

SALES ORDER

Sold to:

REAL S/A-Transportes Aereos and

Empresa de Transportes Aerovias

Brazil S/A

S. A. Empresa de Viacao Aerea

Rio Grandense (VARIG)

Date:

1 March 1963

S. O. No.

600-8-77

W. O. No.

31,000 Series

SHIPMENT OF CONSTANT SPEED DRIVE UNITS TO GENERAL ELECTRIC

- 1. This Sales Order authorizes Departments concerned to take whatever action is necessary to rotate the constant speed drive units to General Electric at Ontario for inspection and repair as required to preserve the warranty of these units subsequent to delivery of the Varig aircraft.
- 2. This activity is to be accomplished in accordance with program schedule 4EJ-512.
- 3. Contract delivery schedules are not affected by the work performed pursuant to this authorization.

ELM:1s

Log No. 520

7 D. H. Digges

Director of Contracts

SALES ORDER

Sold to: REAL S/A-Transportes Aereos and

Empresa de Transportes Aerovias

Brazil S/A

S. A. Empresa de Viacao Aerea

Rio Grandense (VARIG)

Date:

1 March 1963

S. O. No.

600-8-76

W. O. No.

31,000 Series

SHIPMENT OF AIR CONDITIONING COMPONENTS TO HAMILTON STANDARD

- 1. This Sales Order authorizes Departments concerned to take whatever action is necessary to rotate the air conditioning components to Hamilton Standard for updating to preserve the warranty of these units subsequent to delivery of the Varig aircraft.
- 2. It is understood that such components will be updated by Hamilton Standard at no charge to Convair. The updated units are to be installed in Varig aircraft Nos. 10-13, 10-19 and 10-20 prior to delivery in accordance with program schedule 4EJ-512.
- 3. Contract delivery schedules are not affected by the work performed pursuant to this authorization.

ELM:Is

Log. No. 519

7 D. H. Digges

Director of Contracts

Revised II March 1963

* Revised: 25 February 196

PE I S'A-Transported Aerece Date: 6 Francisy 963

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S. A. Empresa le Vivono Acrea

Rio Srindensu (VARIS) W O. No. 31, 800 Series

A fer host (a) Sgreenest between W. R. Carroll of General Electric and A. T.

a schoneld of General Dynamica

& Programy .963

(b) Telcon between J. T. MacDonald, C. L. Meadox and D. H. Digges

& Fichruary 761

* (c) Telecon between C. Z. German & E. L. McDonald 2/25/63

(d) Memo R. L. Mellison to E. L. McDonald dtd 3/5/63

TO ONTAREO - VARIO

& (c) *

contract to references (a) and (b), this Sales Order authoriess departments contract to ship the following C.1305-23B engines to Ontario for incorporation of exvice building required by General Electric in anticipation of the ultimate sale of said engines to Varig.

GE-E414-170	GD-E4 4-14-144
GE-F414-160	GE-E414-178
GE-E414-161	GE-E414-173
GE-E 4 4-179	GF-E4:4-181
	* GE-E414-184

Material Department is requested to ship these engines on a consignment muchase order to Ontario as soon as possible, such consignment to contain in out schedules.

FUM:

*Revised to add ref (c) & amend para l

Disector of Contract

Sold to.

SALES OF DER

* Revised:

6 February 1963

31,000 Series

REAL MA Transportes Acrens

a id Empress de Transportes

Dolle:

17 January 1963

Apportus Bruzil StA

S. O. Noss

W. O. No.:

600-8-74

S. A. IMPRESA de VIACAO AREA RIO

Reference (a) Telephone convergation ontween E. L. McDonald and G.D. Clark

17 January 1963

(t) Two - C. H. Edmends (VARIG) to G. D. Clark dated 15 January 1963

\$ (c) CCP No. 62

(d) Sales Order 600-8-73

CONVAIR 990 - REAL VARIO CCP NO. 62

(c) #

all

- (1) he accordance with coference (a) above, this Saise Order authorizes the Allegian and a mark describer and Dobariments to brock que a difference a subthe instrument switching modification as covered by MCL 30-52, 129, हरू ने के हा नक्षारी का वे विकास के बार के किया है। विकास के बार के किया है जो किया है। विकास के किया किया है
- 9 14 Am happard harr and to nace ed-50, 960 newering engines of eg-and particles ed-· इक्कान वेड काहिएन है। इसे देश का वास्त्र वेक्का -
- \$(3) Reference (c) was accepted by the customer on 4 February in accordance with the terms thereof.
- \$(4) Reference (c) above results in one weeks delay in submittal of each aircraft as previously indicated in reference (d).
- *[5] Engineering Specification Section will provide the Contracts Department with revised spec. pages.

Leg No. 214 351

D R. Digges Disactor of Contracts

*Revised to add refs. (c) and (d), amend para. 1, delete para 2, and add paras. 3, 4, and 5. GDC:mg

REAL/VARIG MINUTES

21 January 1963 Revised 6 February 1963

Reference: (a) Telephone conversation, E. L. McDonald and G. D. Clark 17 January 1963

(b) TWX - C. B. Edmonds (VARIG) to G. D. Clark dated 15 January 1963

(c) Sales Order No. 600-8-74, dated 17 January 1963 revised 6 February 1963

Subject: INSTRUMENT SWITCH REVISION No.-2

In accordance with reference (c) above, all departments are authorized to proceed with the instrument switching modification as covered by MCL 30-62, 129.

ACTION: Engineering is hereby authorized to proceed and Specification Section will forward revised specification pages to Contracts Department as soon as practicable.

A. J. Savard 880/990 Program Manager

RECEIVED FEB 8'63

		*Revised:	7 February 1963
Sold to:	REAL S A-Transportes Assess and	Date:	19 December 1962
	Empsasa de Transportes Asrovias		
	Brazil S'A	5. O. No.	600-8-73
	S A. Empsesa de Viacao Assea		
	Rio Grandense (VARIG)	M.O. No.	31,000 Series

Reference: (a) Telephone conversation between C. Z. Gegman and F. L. McDonald on 18 December 1952

*(b) CCP No. 62

**(c) Sales Order 600-8-74

RECEIVED

CONVAIR 990 - REAL VARIG DELIVERY OF VARIO AIRCRAFT FEB 8'63

1. This Sales Order camels and supersades Sales Order No. 600-0-46, and authorizer all departments concurred to proceed with the completion of the Varig regall with Swisskie drag improvements for delivery to Varig in accordance with the fallowing schedule:

> March 1961 April 1963

The above deliveries are based on the following submittal dates:

21 Alzplane No. 13 -14 March 1963 24-5-2-3-4-4- 4 April 1963 * Airpiane No. 19 -Fl- April 1963 Airplane No. 20

3. In accordance with the terms of References (b) and (c) above, the submittal dates of paragraph 2 above have been revised as indicated.

FILM IN

*Revised to add Ref. (b) and (c), amend para 2 ladd para 3. GDC:mg

Manager of Contracts

V5 mathews 6-122

REAL/VARIG MINUTES

December 14, 1962 Revised December 27, 1962

Reference: (a) V. Cernuto Memo dated 12-13-62

(b) S.O. No. 600-8-73 dated 19 December 1962

Subject:

Change in external configuration - AA to Swissair

Per Reference (a), authorization has been received to configure Ships 30-10, Nos. 13, 19 and 20, from Model 5 configuration to Model 6 configuration, externally.

The delivery dates for these airplanes are targeted for two (2) in March 1963 and one (1) in April 1963.

ACTION: These Minutes authorize Engineering Design Groups to modify existing releases for Varig in accordance with the above.

A. J. Saverd Project Engineer

DEC 28'62

RECEIVED

PROCEDURES ADMIN

Sold to: REAL S/A - Transportes Aereos and

Empresa de Transportes Aerovias

Brazil S/A

Reference: (a) STO 62-212

Date:

19 July 1962

SO No: 600-8-71

SALES ORDER

WO No: 31,000 Series

CONVAIR 990 - REAL/VARIG

- (1) Reference (a) outlines the task in connection with incorporation in the Model 30 Flight Manual certain improved operational performance for the aircraft.
- (2) All concerned are hereby authorized to take necessary action to revise the FAA approved Flight Manual and to obtain FAA approval for said revisions in order to accomplish the following for the unmodified Model 30-8 aircraft:
 - 1. Determine and certify improved take-off performance available from
 - A. use of increased thrust for second segment climb and
 - B. optimization of V_T speeds for two critical airport conditions.
 - 2. Otherwise complete the task outlined in Reference (a).
- (3) There is no cost to the customer in connection with this authorization.

CJD/16

Log No. 1506

F. S. Chambers Manager of Contracts CENERAL DYNAMICS/CONVAIR W. E. Fitz Simons 6-122B

REAL/VARIG MINUTES

Model 30-8 No. 56

18 July 1962

Reference: (a) Sales Order 600-8-71 dated 18 July 1962

UNMODIFIED MODEL 30-8 CERTIFICATION - REVISION OF

Authorization has been received as evidenced by Reference (a) to proceed with changes of the unmodified Model 30-8 certification covering (a) optimization of VR speeds for airports at Bogota and Mexico City and (b) second segment climb improvement by use of increased thrust available with resetting throttles. Final data approved by FAA is to be available by August 6, 1962. The take-off speeds derived should be based upon the following assumed conditions:

Airport	Bogota	Mexico City
Temperature *(°F) Altitude (Ft.) Runway Length (Ft.) Clearway Slope	59 8,355 12,470 No None	76 7,340 11,035 Yes (unlimited) Hone

ACTION:

These Minutes authorize Engineering Flight Test and all others concerned to take such action as is necessary to incorporate changes as described above.

* Certified for a range covering these temperatures.

A. J. Savard Model 990 Project Engineer

Accounting Sales Order

Sold to:

REAL S/A - Transportes Aereos

and Empresa de Transportes Aerovias

Date: 25 June 1962

SO No: 600-8-70

Reference:

(a) Amendment No. 6 to Purchase Agreement between General Dynamics/

Convair and REAL dated 29 December 1960 ((Subparagraph (2) Article (3)) Dollar amount set apart for initial spares

r

WO No: 31,000 Series

procurement

(b) Letter, John S. Russell to Dynalectron Corporation (Attention: John Schelling, Esq.),

dated 14 June 1962

(c) 5 June 1962 Memo, C. C. Sawyer to E. L. McDonald, referring to Reference (a)

above

HEAL/VARIG TRANSFER OF FUNDS, PRESENTLY HELD BY
GENERAL DYNAMICS/CONVAIR, TO AIR CARRIER SERVICE CORPORATION, DIVISION
OF DYNALECTRON CORPORATION

(1) In accordance with authorizations contained in Reference (b) above, General Dynamics/Convair Accounting Department is instructed to prepare a check in the amount of \$71,636.09, payable to Air Carrier Service Corporation, Division of Dynalectron Corporation, and deliver same to Commercial Contracts for transmittal to Air Carrier.

fil GDC: hs

Log No 1241

Manager of Contracts

Revised: 21 May 1962

(a) SD/Occupate Sales Order 600-8550 date: 31 Day 1962 as revised (b) Letter, the Carrier Service Corp., to Convert Chart, dtd 12 April 19 (c) Air Carrier Service Statement of Account dated 17 April 1962

(d) Canadian Marconi latter to GD/Convai dated 2 May 1962

(a) Canadia: Marconi Invoices Nos. J-1012)

(f) Telephone instructions from GD/New York, 18 May 1962 (g) Confirming memo, E.L. McDonald from C.Z. German, dated 17 May 1962

(h) Letter, 11-0-1530, to ACSC dated 18 May 1962

THE WALL AND THE PROPERTY ASSESSMENT PROPERTY ASSESSMENT PROPERTY OF THE WARDING MARCHIE DOPPINED

The Allerence (a) allows. General Dynamics/Convair placed purchase orders with Air Corrier Service Corp. covering Caralian Marconi Doppler optimient for the three REAL/VARIL Model 30 aircraft. This interial has been received with to for either the ambject aircraft.

is knowned (b) and (c) stove, we have been informed that the Canadian owned to Doppher equipment had not been paid for.

Payment to be under by General Dynamics/Convair check payable jointly to Air Christian Service Corps, 1510 H Street, N.V., Washington 5, D.C. and Christian Turouni Co., 2442 Treaton Ave., Montreal 16, Canada and transmitted to Compared Contracts, Department 11-0, for transmittal.

(6) In accordance with References (f) and (g) above, cancel Paragraphs ()/above and return General Dynamics/Convair Check No. 21449, in the amount of \$51,169.43 to OD/Convair Accounting for cancellation.

Revised to add References (f), (g) & (h), and to add let Paragraph (6), and to cancel Paragraphs (3) & (4).

P. S. Chambers Manager of Contracts

Sales Order

Sold to:

REAL S/A - Transportes Aereos

and Empresa de Transportes Aerovias

Brazil S/A

Date: 14 March 1962

SO No: 600-8-67

Reference: (a) REAL Letter, FR 025/62, dated 14 March 1962

(b) CCP No. 59 (c) MCL 62,036

WO No: 31,000 Series

CONVAIR 990 - REAL FLIGHT ENGINEER'S SEAT VENDOR, CHANGE TO

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Flight Engineer's Seat Vendor, Change to), based upon MCL 62,036, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the changes as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

Log No. 642

coff. S. Chambers Manager of Contracts

4. Brown 6-122B

REAL/VARIG MINUTES

21 March 1962

Model 30-8 No. 54

Reference: (a) Sales Order 600-8-67 dated 14 March 1962

(b) CCP No. 59 (c) MCL 62,036

FLIGHT ENGINEER'S SEAT VENDOR, CHANGE TO

REAL has accepted Convair's proposal, reference (b), Specification Administrative Change (Flight Engineer's Seat Vendor Change to), based upon MCL 62,036, reference (c).

This change has no effect on aircraft weight empty, performance or delivery schedule

ACTION: Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

Sales Order

Sold to:

REAL S/A - Transportes Aereos

and Empresa de Transportes Aerovias

Brazil S/A

Date:

28 February 1962

80 No:

600-8-66

Reference:

(a) REAL Letter, FR 020/62,

dated 28 February 1962

WO No:

31,000 Series

(b) CCP No. 58 (c) MCL 62,035

CONVAIR 990 - REAL REVISION TO PARAGRAPH 3.19.2.7.1

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Revision to Paragraph 3.19.2.7.1), based upon MCL 62,035, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the changes as outlined in Maference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

Log No. 565

Chambers

Manager of Contracts

REAL/VARIG MINUTES

6 March 1962

No. 51 Model 30-8

- (a) Sales Order 600-8-66 dated 28 February 1962 (b) CCP No. 58 (c) MCL 62,035

REVISION TO PARAGRAPH 3.19.2.7.1

REAL/VARIG has accepted Convair's proposal, reference (b), Specification Administrative Change (Revision to Paragraph 3.19.2.7.1), based upon MCL 62,035, reference (c). This change has no effect on aircraft weight empty, performance or delivery schedule.

ACTION: Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

1 5 4 Juin 6/42

GENERAL DYNAMICS/CONVAIR

Sales Order

Sold to:

REAL S/A - Transportes Aereos

and Empresa de Transportes Aerovias

Brazil S/A

Date:

28 February 1962

S/A

SO No:

600-8-65

Reference:

(a) REAL Letter, FR 017/62, dated 22 February 1962

b) CCP No. 57

(e) MCL 62,034

WO No: 31,000 Series

CONVAIR 990 - REAL REVISION TO PARAGRAPH 3.12.11.2

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Revision to Paragraph 3.12.11.2), based upon MCL 62,034, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the changes as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

fil GDC: hb

Log No. 564

L. F. S. Chambers

labourer of thetemote

REAL/VARIG MINUTES

6 March 1962

No. 52

Model 30-8

(a) Sales Order 600-8-65 dated 28 February 1962 (b) CCP No. 57

(c) MOL 62,034

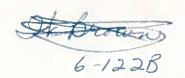
REVISION TO PARAGRAPH 3.12.11.2

REAL/VARIG has accepted Convair's proposal, reference (b), Specification Administrative Change (Revision to Paragraph 3.12.11.2), based upon MCI 62,034, reference (c).

This change has no effect on aircraft weight empty, performance or delivery schedule.

ACTION: Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

ject Engineer



REAL/VARIG MINUTES

19 March 1962

Model 30-8 No. 53

Reference: (a) Sales Order 600-8-64 dated 26 February 1962

(b) CCP N. 55 (c) MCL 62,033

REVISION TO PARAGRAPH 3.16.11.3

REAL has accepted Convair's proposal, reference (b), Specification Administrative Change (Revision to paragraph 3.16.11.3), based upon MCL 62,033, reference (c).

This change has no effect on aircraft weight empty, performance or delivery schedule.

ACTION: Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

A. A Savard Project Engineer

AJ8:JCS:gt

Sales Order

Sold to:

REAL S/A - Transportes Aereos

and Empresa de Transportes Aerovias

Brazil S/A

26 February 1962 Date:

80 No: 600-8-64

Reference: (a) REAL Letter, FR 014/62,

dated 22 February 1962

(b) CCP No. 55 (c) MCL 62,033 WO No: 31,000 Series

CONVAIR 990 - REAL REVISION TO PARAGRAPH 3.16.11.3

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Revision to Paragraph 3.16.11.3), based upon MCL 62,033, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the changes as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty There is no effect on aircraft performance or delivery schedule.

Log No. 542

UMF. S. Chambers

Manager of Contracts

Sales Order

DuRavised:

Sold to:

REAL S/A - Transportes Aereos

5 March 1,52 #Ravisad:

and Empresa de Transportes Aerovies

Date: 19 February 1962

Branil S/A

80 No: 600-8-63

3.A. Espresa De Viscao Aeres Rio

Grandense-VARIG

WO No: 31,000 Saries

Reference: (a) Work Order No. 717/1

STORAGE, MODEL 30-8 AIRCRAFT

- * (1)a. This Sales Order authorizes all concerned to prepare for storage for a maximum of 90 days, commencing 19 February 19
 - (2) All costs in connection with this storage are to accumulate under Work Order No. 11711/ 31717.
- (1)b. Prepare Production No. 30-10-19 for storage for a maximum of 90 days, commencing 12 March 1962.
- (1). Prepare Production No. 30-10-20 for storage for a maximum of 90 days, cammencing 23 March 1962.

LOS NO. 195-47 644

to change Ref.(a), Paras. (1)a., and (2);

to edd (1)b. to edd [1]c.

F. S. Manhers Manager of Contracts

Sales Order

Sold to:

REAL S/A - Transportes Aereos

Date:

2 February 1962

and Emprese de Transportes Aerovias Brazil 8/A

SO No: 600-8-62

Reference:

(a) REAL Letter, FR 006/61, dated 29 January 1962

WO No: 31,000 Series

(b) CCP No. 54

(e) MCL 62,032

CONVAIR 990 - REAL INSTALLATION OF HIGH SPEED TIRES

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Installation of High Speed Tires), based upon MCL 62,032, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the changes as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

Log No AA7

Managar of Contracts

REAL/VARIO MINUTES

6 March 1962

No. 50

Model 30-8

Reference:

(a) Sales Order 600-8-62 dated 2 February 1962 (b) CCP No. 54

(c) MOIL 62,032

(d) Memo, Sproat to Trussell dated 13 November 1961

INSTALLATION OF HIGH SPEED TIRES

REAL has eccepted Convair's proposal, reference (b), Specification Administrative Change (Installation of High Speed Tires), based upon MIL 62,032, reference (c). This change has no effect on aircraft weight empty, performance or delivery schedule.

ACTION: Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

Design Group action previously authorized by reference (d).

. Savard et Engineer

Sales Order

Sold to:

REAL S/A - Transportes Aereos

and Empresa de Transportes Aerovias

Date: 18 January 1962

Brazil S/A

80 No: 600-8-61

Reference:

(a) REAL Letter, FR 001/62, dated 16 January 1962

WO No: 31,000 Series

(b) CCP No. 42 (c) MCL 62,028

CONVAIR 990 - REAL/VARIO REVISION TO ENGINE AND THRUST REVERSER SPECIFICATIONS

- (1) REAL/VARIG has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Revision to Engine and Thrust Reverser Specifications), based upon MCL 62,028, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change as outlined in Reference (c).
- (2) Engineering Specification Section will forward mecessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

Log No. 265

F. S. Chambers Manager of Contracts

6142

REAL MINUTES

No. 49 Model 30-8

2 February 1962

(a) Sales Order 600-8-61 dated 18 January 1962
(b) CCP No. 42

(c) MUL 62,028

REVISION TO ENGINE AND THRUST REVERSER SPECIFICATIONS

REAL/VARIG has accepted Convair's proposal, reference (b), Specification Administrative Change (Revision to Engine and Thrust Reverser Specifications), based upon reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change as outlined in reference (c).

This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

ACTION: Engineering Specification Section will forward necessary revised specification pages to the Contracts Department as soon as practicable.

Engineer - Model 30

AJS:JCS:gt

Cold. to. REAL S/A - Transportes Astron

and capreca de Transpostes Aerovies

Bradil S/A

References (c) Memo, R.A. Nesle to

F. S. Chambers/B.J. Simons,

dated 15 January 1962 (b) MCL 62,127 (CCP No. 56) *Revised: 15 February 1962

SO No. 600-8-60

WC No. 31,000 Saries

INSTALLATION OF GROUND AIR CONDITIONING CONNECTORS NO. 30-28023

(1) In accordance with Asference (a) this Sales Order authorizes isotallation of ground air conditioning connectors No. 130-28023 on all VARIO 990's prior to delivery.

CE the

All TREV. to add Ref. (i).

F. S. Chambers Manager of Contracts

Mathews 6140

REAL/VARIG MINUTES

15 January 1962

No. 48 Model 30-8

Reference: (a) R. A. Noale memo to Chambers/Simons dated 15 January 1962

(b) Sales Order #600-8-60 dated 15 January 1962

INSTALLATION OF AIR CONDITIONING GROUND CONNECTION

MODEL 30-8 AIRCRAFT - PRODUCTION NUMBERS 13, 19 & 20

These minutes authorize all concerned to proceed with such action as necessary to install ground air conditioning connection #30-28023 on all VARIG 990's prior to delivery.

ACTION: An EWO shall be prepared and processed as soon as possible.

Design Group shall coordinate with CCB to establish a satisfactory off-board date. Engineering Specification section will forward necessary revised specification pages to the Contracts Department as soon as practicable.

A. J. Savard Project Engineer

RECEIVED

JAN 16'62

DATA & PROCEDURES ADMIN.

6140

GENERAL DYNAMICS/CONVAIR

Sold to: REAL S/A - Transportes Aerecs

and Empresa de Transportes Aerovias

Brasil S/A Sao Paulo, Brasil Accounting Sales Order

Date: 28 November 1961

80 No: 600-8-59

WO No: 31,000 Series

CONVAIR 990 - REAL

CHANGE ORDER NO. 8

(1) Attached is a copy of Change Order No. 8 signed by REAL S/A - Transportes Acress and Empresa de Transportes Acrovias Brazil S/A, which amends Detail Specification Report No. ZD-30-008, dated 2 May 1960, to incorporate Commercial Change Proposal No. 43.

RECFIVED

DEC 7'61

DATA & PROCEDURES ADMIN.

GDC: ba

Log No. 3205

F. S. Chambers Manager of Contracts

ce: (all with attachment)
Arthur Anderson & Co.

G. H. Blain

D. C. Burrows

F. S. Chambers

G. A. Dies, Jr.

J. D. Eiland

R. D. Evens

O. W. Harper (w/attach-2)

A. L. Hendricks

R. R. Hoover (w/attach-2)

W. J. Jason

H. A. Kayes

W. T. Lake

V. S. Mathews (w/attach-2)

C. L. Meador

R. C. Neal (exec. copy)

A. G. Rothlisberg

C. C. Sawyer

I. D. Sykes

R. B. Watts

File: C.O. #8

Sales Order File

CHANGE ORDER NO. 8

pursuant to

Article 5 of Purchase Agreement dated 12 August 1957

by and between

REAL S/A - Transportes Aereos and Empresa de Transportes Aerovias Brazil S/A and General Dynamics/Convair

- I. The Detail Specification Report ZD-30-008 is hereby amended to reflect certain changes all as more particularly described below.
- II. Aircraft affected:

Undelivered - 3

III. Effect on weight and balance:

Effect on Guaranteed Weight Empty Effect on Operating Weight Empty Effect on Balance +78.0 pounds +78.0 pounds

+69,960 inch-pounds

IV. Effect on performance:

None

V. Effect on delivery:

None

VI. This Change Order results in the following charges or credits --

None

VII. The attached Commercial Change Proposal Summary No. 4 and revised Specification Pages dated 25 July 1961 are hereby incorporated into and become a part of Detail Specification Report No. ZD-30-008 dated 2 May 1960.

CHANGE ORDER NO. 8

purguent to

Article 5 of Purchase Agreement dated 12 August 1957 by and between

REAL S/A - Transportes Aereos and Empresa de Transportes Aerovias Brazil S/A and General Dynamics/Convair

VIII. Except as herein modified all provisions of the Furchase Agreement and the Dateil Specification shall remain in effect.

GENERAL DYNAMICS CORPORATION

By: /s/ F. S. Chambers

Title: Manager of Contracts

Accepted and Agreed to

This 13 day of November 1961

REAL S/A - TRANSPORTES AEREOS

By: /s/ R. Bordini

Title: President

EMPRESA DE TRANSPORTES AEROVIAS ERAZIL S/A

Title: Director Superintendent

By: /s/ R. Bordini

Reference:

REAL S/A - Transportes Aerecs Sold to:

B ezil 8/A

and Empresa de Transportes

(a) Memo, Savard to Chambers, dated 2 November 1961

(b) REAL Letter, Robattino to Clark, dated 8 November 1961 Sales Order

Date: 8 November 1961

SO No: 600-8-58

WO No: 31,000 Series

FREQUENCIES FOR HF STANDBY RECEIVER - MODEL 30-8 AIRCRAFT

(1) REAL has submitted the following list of frequencies to be installed on the HF Standby Receiver for their 990 Model 30-8 aircraft:

3023.5 6552 10021 3404.5 6567 10048 3418.5 6597 10093.5 3432.5 6612 11290 3453.5 6664.5 13264.5 3467.5 6685 13314.5 4637.5 6872 13314.5 4950 8085 13344.5 5000 8364 13354.5 5484 8820 15036 5499 8828.5 17916.5 5536.5 8837 17926.5 5559 8845.5 17946.5 5581.5 8879.5 18023.5 5611.5 8888 20000
5611.5 8888 20000 21870

(2) All departments concerned are authorized to take such action as is necessary to procure the above mentioned crystals. This is in accordance with Detail Specification ZD-30-008.

GDC: hs

Log No. 30779

S. Chambers nager of Contracts

Zhevissur 21 Amrch 1963

Sales Order retyped 30 January 1962

GENERAL DYNAMICS/CONVAIR

MANAGER TO STATE TO THE TOTAL TOTAL

"Revised: 10 November 1961 ashavised: 29 December 1961

5.0. No: 600-8-57

REAL S/A - Transportes Aereos #95Revised: 8 January 1962 Sold to:

and Empress de Transportes Aerovias *****Revised: 15 Jamary 1962 Brazil S/A

Reference:

(a) Sales Order 600-8-58 (Faragraph 6)

W. O. No: 31,000 Series

MCL 62,125 dated 10/31/61.

(e) Nemo, Sproat to Clark, dated 1/4/62.

Telecon, Sproet/Clark, 15 Jamuary 1962.
Latter, Charlotte Franklin from
P.S. Chambers dated 8 September 1961, (10-0-4255).

DELIGITOR OF CUSTOMER VENDED EQUIPMENT IN THE MODEL 30-8 ATRCRAFT, PRODUCTION NOS. 13, 19 and 20

- (1) You are hereby authorized to take such action as is necessary to delete the customer furnished SELL galleys from subject aircraft and to certify and deliver subject aircraft without the galleys.
- (2) Engineering Specification Section will forward necessary revised Specification Pages to the Contracts Department as soon as practicable.
- (3) There shall be no effect on aircraft delivery schedule.
- (4) All concerned are hereby authorized to place the following listed items aboard the subject aircreft as loose equipment at time of delivery of each sireraft:

30-92721-1		Buffet installation - No. Ship all parts required	1	(except buffet)
30-92782-1		Buffet installation - No. Ship all parts required	2	(oxcept buffst)
30-94733-1	*	Buffet installation - No. Ship all parts required	3	(oxeept buffet)
30-94734-1	4	Buffet installation - No. Ship all parts required	ķ	(except buffet)
30-94735-1		Buffet installation - No. Ship all parts required	5	(except buffet)

(Continued on Page Two)

GDC:hs Log No. 3019 1148 127 190 798 --- 635 /gdc/ Thevised to edd Ref. (b). ashev. to add Para. (4) a aller. to delete 1 item and add 2 items under Fara. (4) and odd Ref. (c).

/s/ F.S.Chambers

assafer. to add Ref. (d), and to change Para. (4). Bridger. to add Ref. (e) and add an item under Para. (4).

/EIM XRevised to add to loose equipment list.

F. S. Charlers Manager of Contracts Sold to:

REAL S/A - Transportes Aereos

and Deprese de Transportes Aerovias Brazil S/A

Reference: (a) See Page One

Page 5to #####Povised: 30 January 1962 Date: 3 November 1961

S.O. No: 600-8-57

W.O. No: 31,000 Series

Total sales	. (4) Cost'd.	
MARKETTA	e (P) GOSS U. A	
	30-92720-1	Buffet installation - Auxiliary Ship all parts required
	22-09954-117	Off-white polyplaster partax - for application on aft upper face of buffet auxiliary storage unit
	14/3/441/1	444444 444 4444 4444 44 44 44 44 44
	30-90407-5	Caygen installations - Portable Ship only (10) AH 520-10R10 Screws
	-833	Placard installation - passenger area Ship only (4) AN 507-632-5 Screws EC 870 Cement
	30-90211-849 & -851	Flacard installation - passenger area Ship all parts required
	30-93356-805	Rack installation - Fortisals cost Ship only (1) 22-90806-805 Curtain Ship only (1) 22-90042-1 Curtain Track Ship only (10) 98-16700-005 Cartain Sliders
	30-92313-1	Stowage installation - life vest, cabin attend. Ship only (2) 95-62000-002 Life vests
	30-94900-1 30-94901-15	Curtain Support
X.	20.150	Curtain (1) leg rests (28 each)

G140 GENERAL DYNAMICS/CONVAIR REAL/VARIG MINUTES No. 45 Model 30-8 8 November 1961 Reference: (Sales Order 600-8-57 dated 3 November 1961 DELISITON OF CUSTOMER VENDED EQUIPMENT IN THE MODEL 30-8 AIRCRAFT, PRODUCTION NOS. 13, 19 AND 20 These Minutes authorize all concerned to proceed with such action as is necessary to delete the customer furnished SELL galleys from subject aircraft and to certify and deliver subject aircraft without the galleys.

There shall be no effect on aircraft delivery schedule.

ACTION: An ENO shall be prepared and processed as soon as possible. Design Group shall coordinate with CCB to establish a satisfactory off-board date. Engineering Specification Section will forward necessary revised Specification Pages to the Contracts Department as soon as practicable.

A. J. Savard Project Engineer

RECEIVED

NOV 13'61

PROCEDURES ADMIN.

REAL/VARIG MINUTES

10 November 1961

No. 46

Model 30-8

Reference: (a) Sales Order 600-8-58 dated 8 November 1961

FREQUENCIES FOR HF STANDBY RECEIVER

1. REAL has submitted the following list of frequencies to be installed on the HF Standby Receiver for their 990 Model 30-8 aircraft:

21.82 2889	5641.5 5649	8939 8947.5
2910	5656.5	8961.5
2931	5680	8961.5 9452
2966	5920	9720
2973	5935 6537	9810 9855
2987 3081	6544.5	10000
3023.5	6552	10021
3404.5	6567	10048
3418.5	6597	10093.5
3432.5	6612	11290
3453.5	6664.5 6685	13264.5 13314.5
3467.5 4637.5	6872	13344.5
4950	8085	13354.5
5000	8364	15036
5000 5484	8820	17916.5
5499	8828.5	17926.5
5536.5	8837	17936.5 17946.5
5559 5566.5	8845.5 8871	18022 5
5581.5	8879.5	18023.5 20000
5611.5	8888	21.870

2. All departments concerned are authorized to take such action as is necessary to procure the above mentioned crystals. This is in accordance with Detail Specification ZD-30-008.

ACTION: The Design Group shall prepare a conversion chart showing

crystal frequencies corresponding to the above listed operating

frequencies.

A. J. Sevard Project Engineer

Sales Order Date: 24 October 1961

GENERAL DYNAMICS/CONVAIR

Sold to:

REAL S/A - Transportes Aereos

and Empresa de Transportes

Brazil 8/A

SO No: 600-8-56

Reference: (a) Request from SELL, manufacturers

WO No: 31,000 Series of CFE galleys for REAL 30-8 aircraft, Nos. 13, 19 and 20, through Laiz

Robattino, 24 October 1961

REAL 30-8 CUSTOMER VENDED GALLEYS

- (1) This Sales Order authorizes the Material Department to forward prepaid to REAL's buffet manufacturer in Germany three (3) each, connector plugs, No. 92-40325-116 (Vendor No. PTO6E-18-30P).
- (2) Shipping instructions shall bear the following:

VIA Air Fastest

SELL Frankfurt Rhein-Main Airport Attention: Messrs. Lassen & Co. Frankfurt (Main) Airport Germany

(3) The consignment covering the aforementioned goods shall be accompanied by a proforma invoice stating that the items are being sent to SELL as samples free of charge. Value for customs purposes to be established by Material Department.

Log No. 2985

F. S. Chambers Manager of Contracts

HHARAV18ad: 22 Hovember 1961 ***Ravised: 8 November 1961 (a) REAL latter, FR 199/61, dates 11/6/61, and accompanying drawings. (d) REAL letter, FR 216/ dated 11/14/61. 10 TO V. I) heavy the word "Coronado" on the huslan and top of the Replace the color of the first 9 of 990, located on the body, with (6) Install registration letters on lower surfaces of both wings on REAL/VARIG aircraft Production Nos.13,19 20, im accordance Replace the word "Coronado" on both sides of the fuselage and both side with Convair Shetch of top of the vertical stabilizer with the following -- "Convert 990" -8K 30-11151-1. on Production Nos. 13, 19 and 20. Letters and numerals on stabiliter to be 5 inches high, letters and numerals on fuselage to be 6 inches high secordance with referenced drawings. 5) Remove the markings "Conveir 990" on all 4 pods on aircraft Production Nos. 19 and 20 only 204 4-44 3167 the law iged to add subparas. (4) & (5) Under Para. (3). ***Revised to add Ref. (d) and Subpara. (6).

Mathews 6140

REAL/VARIS MINUTES

16 October 1961 Revised 9 November 1961 Revised 22 Fovember 1961

No. 43 Model 30-8

Reference: (a) Sales Order 600-8-55 dated 13 October 1961. Revised, 8 November 1961 - revi

22 Hovember 1961

REAL 30-8 EXTERIOR MARKINGS AND PAINT

These minutes authorize all concerned to proceed with the exterior markings in accordance with VARIO Drawing No. 31-00-1 (5 sheets) /#1 & #4 revise also color chips as identified below, on the three (3) REAL model 30-8 aircraft:

LAC 575A	Green
LAC 758A	Gray
LAC 756A	Yellow
LAC 703A	White
LAC 747A	Black
LAC 755A	Blue

There is no effect on aircraft performance or delivery schedule. Effect on aircraft weight empty to be determined.

ACTION: An ENO shall be prepared and processed as soon as possible. Design Group shall coordinate with CCB to establish a satisfactory offboard date.

Replace the word "Coronado" on the fuselage and vertical stabalizer with "Convair 990" in accordance with revision to sheet #1 of VARIG Drawing 31-00-1 Do not install "990" on pods for production aircraft No's 19 and 20.

Install registration letters on loser surfaces of both wings on all production a/c Nos. 13, 19 & 20 in accordance with Convair sketch SK 30-11151-1.

> A. J. Bavard Project Engineer

RECEIVED

NOV 24'61

DATA PROCEDU. L.S.

6142

REAL/VARIG MINUTES

No. 44 Model. 30-8

19 October 1961

(a) Bales Order 600-8-54 dated 29 September 1961 Reference:

(b) MCL 62,122

CHANGES TO REAL 30-8 INTERIOR TRIM AND COLOR

REAL/VARIG has accepted Convair's proposal based upon MCL 62, 122, reference (b). Accordingly, all departments concerned are directed to proceed with incorporation of the change as outlined in reference (b).

Engineering Specification Section Will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

DISCRIPTION OF CHANGE:

- 1) Replace Lime Naugahyde bonded to Ensolite handrail trim with Spanish Gold Naugahyde bonded to Ensolite.
- 2) Replace Rose Metallic Naugabyds arm-rest caps with Spenish Gold Neugabyde on all passenger seats.

ACTION: ENO shall be prepared and processed as soon as possible utilizing the off-board dates as specified on Action Record as revised 10-6-61.

A. J. Savard

Project Engineer

Haddinge 6140

REAL/VARIG MINUTES

16 October 1961

No. 43 Model 30-8

Reference: (a) Sales Order 600-8-55 dated 13 October 1961

RECEIVED

OCT 17'61

REAL 30-8 EXTERIOR MARKINGS AND PAINT

SPECIFICATIONS & OFFICE SERV._ES

These minutes authorize all concerned to proceed with the exterior markings in accordance with VARIG Drawing No. 31-00-1 (5 sheets), also color chips as identified below, on the three (3) REAL model 30-8 aircraft:

IAC 575A	Green
LAC 758A	Cray
IAC 756A	Yellow
IAC 703A	White
LAC 747A	Black
LAC 755A	Elue

There is no effect on aircraft performance or delivery schedule. Effect on aircraft weight empty to be determined.

ACTION: An ENO shall be prepared and processed as soon as

possible. Design Group shall coordinate with CCB to establish

a satisfactory offboard date.

Project Engineer

Sales Order

Sold to:

REAL S/A - Transportes Aereos

the second

and Empresa de Transportes

Brazil 8/A

Date:

29 September 1961

SO No: 600-8-54

Reference:

(a) MCL 62,122

(b) VARIG Letter, Charlotte Franklin

to R. L. Wintringer, dated

26 September 1961

WO No: 31,000 Series

CHANGES TO REAL 30-8 INTERIOR TRIM AND COLOR

- (1) Per Reference (b) REAL/VARIG has ascepted Convair's proposal based upon MCL 62,122, Reference (a). Accordingly all departments concerned are directed to proceed with incorporation of the change as outlined in Reference (a).
- (2) Eagineering Specification Section will forward necessary revised Specification Pages to the Coatracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect ca aircraft performance or delivery schedule.

RLW rad

Log No. 2841

nullmenter F. S. Chambers

Manager of Contracts

Mathews 6140

REAL/VARIG MINUTES

No. 44 Model 30-8

19 October 1961

Reference: (a) Sales Order 600-8-54 dated 29 September 1961

(b) MCL 62,122

CHANGES TO REAL 30-8 INTERIOR TRIM AND COLOR

REAL/VARIG has accepted Convair's proposal based upon MCL 62, 122, reference (b). Accordingly, all departments concerned are directed to proceed with incorporation of the change as outlined in reference (b).

Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

DISCRIPTION OF CHANGE:

- 1) Replace Lime Naugahyde bonded to Ensolite handrail trim with Spanish Gold Naugahyde bonded to Ensolite.
- 2) Replace Rose Metallic Naugahyde arm-rest caps with Spanish Gold Naugahyde on all passenger seats.

ACTION: ENO shall be prepared and processed as soon as possible utilizing the off-board dates as specified on Action Record as revised 10-6-61.

A. J. Savard Project Engineer TOPTAER

OCT 23'61

SPECIFICATIONS & OFFICE SERVICES

Seles Order

"Revised:

28 September 1961

REAL S/A - Transportes Aereos and Empresa de Transportes

Date:

21 September 1961

Brazil 8/A

CCP#52

SO No: 600-8-53

Reference:

Sold to:

(a) MCL 62,116, ravised 24 July 1961

WO No: 31,000 Series

(b) Cable, Robattiao from Bordini, dated 21 September 1961

(c) Real Letter, MAN-289/61, dated 15 September 1961

CONVAIR 990 - REAL BUFFERS

- (1) REAL has accepted Convair's proposal, based upon MCL 62,116, Reference (a). Accordingly, all departments concerned are directed to proceed with incorporation of the change as outlined in Reference (a).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) Weight effectivity will be furnished at a later date by revision to this Sales Order. There is no effect on aircraft performence or delivery schedule.

Log Ho. 2837

*Revised to add Reference (c).

F. S. Chambers Mamager of Chutracta

Matheway 6140 - Grown

REAL MINUTES

3 October 1961

No. 42 Model 30-8

Reference: (a) Sales Order 600-8-53 revised 28 September 1961 (b) MIL 62,116

CONVAIR 990 REAL/VARIO AIRLINES

BUFFERS - CHANGE IN VEHIOR AND ELECTRICAL POWER

REAL Airlines has accepted, as evidenced by reference (a), Convair's proposal based upon MCL 62,116, reference (b).

DISCRIPTION OF CHARGE:

- a. Engineering to provide coordination with new buffet vendor (Sell-Haus Und Kuchentechnik).

 Hote: Assume no change in manner or design of buffet installation.
- b. Revise electrical power distribution to increase the existing power supply of buffet #3 to 11 kw in lieu of 5 kw.
- c. Relocate the auxiliary buffet (#5) oxygen bottle (1) to right hand coat closet utilizing existing coat closet provisions.

This change is effective on aircraft #30-8-1 and on.

ACTION: An EWO shall be prepared and processed as soon as possible.

In as much as the offboard dates, as specified on Action
Record dated 8-8-61, have already passed, a design group shall
coordinate with CCB to establish a satisfactory offboard date.

RECEIVED

OCT 5 '61

SPECIFICATIONS & OFFICE SERVILES

A. J. Sevard Project Engineer

AJB:JCB:gt

Sold to: REAL S/A - Transportes Aereos

and Represa de Transportes

Brazil S/A

Skevised: 14 November 1961.

Date: 7 September 1961

SO No: 600-8-52

Reference: (a) REAL Letter, Luiz Robattino to WO No: 31,000 Series

(b) REAL Letter, Robetting to Clark, deted 13 November 1961.

REAL 30-6 CHYSTALS TO MAINTAIN HF COMMUNICATION SYSTEM

(1) In accordance with Convair request, REAL has submitted the following frequencies for Collins 618-S-1 HF communications to be incorporated in their three (3) 990 aircraft:

PHI	0.40	~			0.0
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A-3	5793	1932	A-3
A-6	2868	2618	Ach
A-12	2875	2625	A=1.2
A-16	2889	2639	A-16
A-20	2910	2660	A-20
V-53	2931	2681	A-23
B-1	2952	2702	B1
B-4	2966	2716	9-4
B-8	2973	2723	3-8
B-16	2987	2737	B-16
B-18	3081	2831	8-18
B-20	3023-5	2773.5	B-20
D-10	3404.5	3154.5	D-10
D-15	3411.5	3161.5	D-15
D-16	3418.5	3168-5	9-16
D-20	3432.5	3182.5	D~50
D-22	3446.5	3196.5	D-55
D-23	3453.5	3203.5	0-23
D-24	3467.5	3217.5	0-24

	BAN	D - 2	
G-1 G-8 G-18 H-21 I-1 I-13 I-16 I-17 I-18 I-19 I-20 I-21 J-5 J-6 J-9	4220 4637.5 4950 5000 5105 5484 5506.5 5499 5521.5 5536.5 5559 5566.5 55604 5611.5	1.985 21.93.75 2350 2375 2427.5 261.7 2628.25 2624.5 2635.75 2635.75 2658.25 2658.25 2658.25	A-1 A-8 A-18 B-21 C-1 C-13 C-16 C-17 C-18 C-19 C-20 C-21 D-5 D-6 D-9
J-11	5619	2684.5	2-11

Sold to:

REAL 5/A - Transportes Aereos

and impress de Transportes

Brazil S/A

Reference: (a) (See Page 1)

Sales Order

*Revised: 14 November 1961 Date: 7 September 1961

SO No: 600-8-52

WO No: 31,000 Series

(BAND	-	2	cont d	9
N THE PARTY OF		100	7.9400 D	76 /S

<i>64</i> 44/1/1	bl.t.b.l.b.l	M+41/46/	61.1.1
Jel2	5641.5	2695.75	D-12
J-13	5649	2699.5	
			D-13
3-14	5656.5	2703.25	0-14
J-19	5671.5	2710.75	D-19
J-21	5680	2715	D-21
K-2	5927	2838.5	8-2
X=3	5935	2842.5	E-3
K-5	6537	3143.5	E
K-7	6544.5	3147.25	E-7
K-8	6552	3151	E-8
K-9	6567	31.58.5	E-9
	6582		
K-10		31.66	E-10
K~57	6597	3173.5	E-21
L-5	6612	3181.	F-5
L-8	6627	3188.5	F-8
L-9	6664 5	3207.25	F-9
Lall	6685	3217.5	P-11
L-16	6872	3311	F-16
	V	مستعمل في	a - 4940
	BAM	D = 3	

	BAND - 3		
M-2 M-10 M-11 M-14 M-22 M-24 N-5 N-6 N-10 N-14 N-22 N-23 P-2 P-3 P-4 P-5 P-6 P-8 P-9 P-10 P-12 P-15 P-22	8085 8364 8820 8828.5 8837 8845.5 8854 8862.5 8871 8879.5 8888 8913.5 8939.5 8939.5 8947.5 8961.5 9452 9720 9810 9855 10000 10021 10048 10093.5	1958.75 2028.5 2142.5 2144.625 2144.625 2146.75 2148.875 2153.125 2153.125 2155.25 2157.375 2159.5 2165.875 2172.25 2174.375 2177.875 2300.5 2367.5 2390 2461.25 2447.5 2449.5 2460.875	A-2 A-10 A-11 A-14 A-22 A-24 B-10 B-10 B-10 C-3 C-3 C-4 C-5 C-6 C-10 C-12 C-15 C-22
R-3 R-7	11299.5 11290 11385	2762 375 2760 2763 (5	D-3 D-3 L-8

Salms Order

HEAL S/A - Transportes Asreca and Rapresa de Transportes

Brand 1 S/A

Reference: (s) (See Page 1)

#Revised: 11 Foventer 1.561

> 600-6-52 50 No:

31,000 Series HO No:

(Band = 3 c	ont/d)		Bar guinelling goverlighte greith, geilling field 35 Steiners a spake in 10 in
S-16 S-19 S-20 S-20 S-20 T-7 T-13 T-14 T-20	13264 5 13274 5 13294 5 13304 5 13314 5 13324 5 13334 5 13344 5	3253.625 3256.125 3261.125 3263.625 3266.125 3268.625 3271.125 3273.625 3276.125	E-16 E-19 E-20 E-22 F-6 F-7 F-13 F-14
	BAND	a la	
U-9 V-2 V-3 V-7 V-11 V-19 V-24 W-21	15036 17906.5 17916.5 17926.5 17936.5 17946.5 18023.5 20000	1845.75 2207.0625 2208.3125 2209.5625 2210.8125 2212.0625 2221.6875 2468.75 2702.5	A-9 B-2 B-3 B-7 B-11 B-19 B-24 C-11 C-23

⁽²⁾ Purchasing Department is authorized to procure necessary crystals to maintain the HF communications system as set out in the above frequencies, this being in compliance with Detail Specification ZD-30-008.

RIA ba

See to the Delab and to cancel crystal frequency

F. S. Chambers Manager of Contracts

Mathewa 6140

VARIG MINUTES

24 November 1961

No. 47 Model 30-8

Reference: (a) Sales Order 600-8-52, revised 11-14-61

REAL 30-8 CRYSTALS TO MAINTAIN HF COMMUNICATION SYSTEM

As evidenced by Reference (a), REAL/VARIG has submitted a list of frequencies required for their HF communications and the corresponding channel allocations.

ACTION: Engineering is hereby authorized to proceed with the incorporation of this information as applicable to ABM's and Engineering Releases.

A. J. Savard Project Engineer

RECEIVED

NOV 27 '61

PROCEDURES ADMIN.

Accounting Sales Order

Sold to: REAL S/A - Transportes Aereos

and Empresa de Transportes Aerovias

Brazil S/A Sao Paulo, Brazil Date: 6 September 1961

SO No: 600-8-51

WO No: 31,000 Series

CONVAIR 990 - REAL

CHANGE ORDER NO. 7

(1) Attached is a copy of Change Order No. 7 signed by REAL 8/A - Transportes Aereos and Empresa de Transportes Aerovias Brazil S/A, which amends Detail Specification Report No. ZD-30-008, dated 2 May 1960, to incorporate the Specification Change Nos. 23, 27, 28, 30, 32, 33, 34, 35, 37, 38, and 39, set out in Paragraph VI of said Change Order.

Log No. 2694

Manager of Contracts

cc: (all with attachment)

Arthur Anderson & Co.

G. H. Blain

D. C. Burrous

Corporate Records

G. A. Dies, Jr.

D. H. Digges

J. D. Eiland

R. D. Evans

0. W. Harper (2)

A. L. Hendricks

R. R. Hoover (2)

W. J. Jason

H. A. Kayes

W. T. Lake

V. S. Mathews (2)

C. L. Meador

A. G. Rothlisberg

C. C. Sawyer

I. D. Sykes

R. K. Waldo (2)

R. B. Watts

J. G. Zevely

File (2)

CHANGE ORDER NO. 7

pursuant to

Article 5 of Purchase Agreement dated 12 August 1957

by and between

REAL S/A - Transportes Aerecs and Empresa de Transportes Aerevias Brasil S/A and General Dynamics Corporation (Convair Division)

- I. The Detail Specification Report ZD-30-008 is hereby emended to reflect certain changes all as more particularly set forth in Specification Change Nos. 23, 27, 28, 30, 32, 33, 34, 35, 37, 38, and 39, Commercial Change Proposal Summary No. 3 and Specification Revision Pages dated 20 June 1961 attached hereto and made a part hereof.
- II. Airplanes Affected:

Undelivered - 3

III. Effect on weight end balance:

As reflected in the Specification Changes and Commercial Change Proposal Summary No. 3 attached.

IV. Effect on performance:

As reflected in the Specification Changes and Commercial Change Proposal Summary No. 3 attached.

V. Effect on delivery:

None

- VI. This Change Order results in the following charges and/or credits:
 - A. Change Ho. 23 -- Miscellaneous Revisions to Specification language (Pages 55, 67, 69, 69 Con't, 99, A-13, and A-15)

B. Change No. 27 -- Adjustable Head Rests, Deletion of (Page 91) No Charges or Credits

Rotal Hon-recurring Charges Recurring Credit per Aircraft

333 5,873

Total Credit for 3 Aircraft

\$ 17,286

CHARGE ORDER NO. 7

pursuant to

Article 5 of Purchase Agreement dated 12 August 1957

by and between

REAL S/A - Transportes Aereos and Empresa de Transportes Aerovias Brasil S/A and General Dynamics Corporation (Convair Division)

		Marcon I	Carrie Santalisa		
Co	Change No. 28 Revision to Oxygen Cylinders (Pages 6 and A-16)				
D.	Change No. 30 Deletion of Aft Engine Fan Anti-Icing System)(Page 111)	No	Charges	OF	Credits
E.	Change No. 32 Revision to Leading Edge Device and Flap Operation Language (Pages 30 and 55a)	No	Charges	or	Credits
F.	Change No. 33 Revision to Paragraph 3.12.9.7.1, Appendix E-C and Emergency Exit Flow Illustration (Pages 20a, 40 and A-17)	No	Charges	OF	Credits
G.	Change No. 34 Doppler Radar, Revision to Provisions for (Page 88)	No	Charges	OF	Credita
	Total Non-recurring Charges Recurring Charge per Aircraft	\$	3,069 None		
	Total Charges for 3 Aircraft	\$	3,069		
H.	Instruments and Revision to Pilots' Instrument Panel Illustration (Pages 34, 47, 47a, 48 and A-6)				
I.	Change No. 37 Revision to Pilots ² Pedestal Ellustration (Page 47b)	No	Charges	or	Cradits
J.	Change No. 38 Revision to Fire Control Panel and Harning Horn Diagram Illus- trations (Pages vi, 48d, and 73a)	No	Charges	OT	Cradits
K.	Change No. 39 Revision to Paragraph 3.16.8.2.3 (Page 67)	No	Charges	OT	Credits

CHARGE ORIEST NO. 7

pursuent to

Article 5 of Purchase Agreement dated 12 August 1957

by and between

REAL S/A - Transportes Acress and Empress de Transportes Acrovias Braxil S/A and General Dynamics Corporation (Convair Division)

L.		the	foregoing	charges	and/or
	credits:				

Total Non-recurring Charges Total Recurring Credit

\$ 3,400 17,619

Potel Credit for 3 Aircraft

\$ 14,217

- The attached Commercial Change Proposal Summary No. 3 and revised Specification Pages dated 20 June 1961 are hereby incorporated into and become a part of Detail Specification Report No. ZD-30-008 dated 2 May 1960.
- VIII. Except as herein modified all provisions of the Purchase Agresment and the Detail Specification shall remain in effect.

GENERAL DYNAMICS/CONVAIR

By: /s/ F. S. Chambers

Title: Manager of Commercial Contract

Accepted and Agreed to as of this 11 day of August 1961.

REAL S/A - TRANSPORTES AEREOS

Ey: /s/ Eduardo M. Alvarenca

Title: Directive

EMPRESA DE TRANSPORTES AEROVIAS BRAZIL S/A

By: /s/ Edwardo M. Alvarenca

Title: Director

THE WITH THE REVISED:

REAL S/A-Transportes Agraps and Empress de Transporter Brazil S/A

Date: SO Fee

Hufereate:

ACAD RAL DENAMICS, CONVAIR

(a) MCL bz, lis revised 7 American 1961

WO Ne 你你你你你用。你们我会说!

31,000 Series 27. Nowamber 196 10 Hovernote 196

16 January 1952

4 April 1962

REAL Letter, FR 151/61 dated 18 August 1941

skeetye Hanesh Sweet Rawleads

V November 1941

REAL letter, FR 167/61, dated 23 August 1961

with the state of the A Spiksmout 1961 松松县 自由情報的日本

1 14 Samier ter 196 (d) REAL Letter, FR 159/61, 李林岛村 在A21年一、 19 September 175 dated 23 August 1961

(G) MCILLALLA LA/65

REAL Letter, MAN-288/61, dated 31 August 1961 ((E))

Wire from Bordini dated 11/3/61; Manu from Sproat dated

(h) Letter, ACSC: Read to Clark, deted 11/8/61

(1) Letter, VARIG. Klowe to SELL, 11/27/61

Advise from C B. Edmands, Traffic Operations international, VARIGIREAL

(n) AVO, Tallerday to Barker, dated 3/30/62.

BODEL 30-8 PEAL ADDITIONAL CUSTOMER VENDED ECUIPICHT

- Reference (b), (c), and (d) better list certain items of equipment that est to be ampulied by REAL the intelliation, by Conveits, in each of their three (3) blodel: 30-8 shrends. These teams are not ruffected in the REAL Betail Epochicution ID-10-008 as sustance furnished. Corvei in-alled. Additionally, he reflected in Asteronce (a), the Wetshi specification shall not be revised to include this equipment as the second An omelaci, Convair installed
- is the article Departurement. CFE Sections in requested to irrerediately earn out in to those orders covering the following home: this purchase orders are to relief on work need dates and are to be lessed at the prices lad. the Tel O Rot

wers fighton

(a) Canadian Marconi 623	Pari Mamber	Airegoit	Talas Onyo	Prisen pers Abservats L
Deppler Sensor constating				
Cara Chaisi	314-829			
Tracker this	314-815		3	
A. 6. 是 在 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 4-825	ī		
CONTENT OF THE PROPERTY OF THE	314-829	1	3.	
Matinal			20	\$ 15, 680 00
Antenna Acapter Plate	316-702	14	14	940 10
delidified	2		-	294 00

FITERAL DYNAMICS/CONVAIR

Retyped SALES ORDER

Ildi

REAL S/A-Tramperson Astron and Density of Transported Stabil STA

Dates

50 No:

31 August 1961

600 -8 - 50

talerance.

(See Page One)

WO Ma

31,000 Series

A =	my province conditionable mandage of makeup in the property of the province of the property of the province of	BORNESSON AND REAL PROPERTY AN	Havisad:	13 Hard 4 April	1962
(b)	Ede Lorem 345A	Part Mumber	Aircraft	Q	Arrests
	completing of: Neceiver Indicator Control Fanal	31742 25335 26881	Į Ž	3	\$ 1,366.0 230.06 321.0
((=) (d)	Gradus GRAS Control Panel	\$ 8.9. 4 = 6. 0-972.	1.7	1 8	140. c

र्वात विकार क्षेत्र के उसके विकार के लिए हैं है के स्थाप के क्षेत्र के लिए हैं के लिए हैं के लिए हैं के लिए हैं are to contain chipping and special instructions as set forth below

APPRESS:

ENGLI WARRENS Calebrate and a Physical and the last a first of the The indeute of the little beaute of

Air Carrier Service Corporation P O Box 2337 Oaklead August Dakkand in California

ATTEMPTON. 14 5 1 made

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AHI PING INSTRUCTIONS

the perchase orders shall contain the following shipping instructions.

Comwa Receiving Language Rose Cabyon Facility San Diego, Californica Attention Gre

THE PURCHASE CRIER MOTATIONS

the particular orders shall in the lattering of differen

All equipment is to be clearly identified an HEAL equipment

that he be paid by check, payment shall be swate by event to 434) worldness and a containing Department in Listuis un for a changle salar palent

The Receiving Depostruchs to to longers the course made tal again sector to Amilitary 42. Commons Plans I. where all lives are to be held for implations to the evaluation of these destricts of a substant Companies a Companies Constituent to to be form since asset 12) copies but of correct terms charas ma recognite of unear resusses such states adoptivities to recognite the second of

N this superiment of her hard the

REAL SIA Transporter Agrees and Empress to I canapartee Brazili S.A.

deserved Portneys date of the section o ##############Revised:

3 March 196 April 1962

(Sev Page One)

WO fee 31, 000 Series

- in accordance with Reference (a), the above listed equipment shall be re-(5) ceived, beach-checked and installed in the REAL 30-8 airceals as sustaines formished, however, the Detail Specification and handbooks shall me be revised to beclude this equipment.
- The REAL Detail Specification presently specifies that the galleys are ((4)) emsterner formished, Childell Mothal Media Accordingly, the CIE Section of the Material Department shall requisition purchase orders cowering the following galleys in addition to those items listed under l'aragraph (E) ತ್ತು ಕ್ರಿಸ್ಟ್ ಕ್ರಿಸ್

in reactipation. (a) ELL Gallsys (b) SELL Stowner

1. 6 色版画作

Qty. per Alferate 77.5

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the design that we have a second the second of the second end of the highest of the state 老眠家 科學》》「重婚而为是工作

Thipping instructions as follow: Ship to VARIC, Hew York, wie Dutch Institutions, for arrival not later than December 19, 1961.

UNITIPARALANTE IN ANTONIO INVINIONINA CALLANTANIANA ANTONIO ATTITUDO SANTANIA Standard And Salabal horder BAL

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to add Ref. (h) by change Para () add Ref. (M), and Ind. Unit under Para (2) (a)& to delete note under some.

Staving to change Part. (6)

we wired to add Ruf (i)

were a luttle Ref (3)

vere:

(a) Pare:

(b) Pare:

(c) Pare:

(d) Pare:

(e) Pare:

(e) Pare:

(f) and Ref (i) & Para. (i)

Sales Crier

Sold to: REAL S/S - Transportes Aereos Date: 21 August 1961
and Empresa de Transportes
Brezil 8/A SO No: 600-8-49

Meference: (a) SELL letter, 11/496/F/T, WO No: 31,000 Series
dated 4 August 1961

CONVAIR 990 - HEAL

FFAL STWARDESS BAND-SETS AND CONTROL BOXES

(1) The REAL Model 30-8 buffet coordination drawings reflect the stawardess

(1) The REAL Model 30-8 buffet coordination drawings meflect the stewardess hand-set and related control box shall be installed on the No. 3 buffet by the buffet manufacturer. Accordingly, this Sales Order authorizes the Material Department to forward, prepaid, three (3), only, stewardess hand-sets and two (2), only, control boxes to MEAL's buffet manufacturer

in Germany. Shipping instructions shall bear the following:

SELL

Frankfurt Rhein-Main Airport
ANTENHON: Mesars. Lassen & Co.
Frankfurt (Main)
Airport

Committee

- 12) The consignment covering the aforementioned goods shall be accompanied by a proforma invoice stating that the items are being sent to SBLL as samples free of charge. Value for customs purposes are as follows:
 - (a) Stewardess hand-sets -- \$76.50 each
 (b) Control boxes -- \$128.00 each
- (3) The control box for HEAL's third directft is not presently available for shipment to SETA. It will be determined in the near future whether this item for the third directft will be installed at SELL or at Convair after receipt of the buffet, at which time this Sales Order will be revised.
- (4) Expeditious handling is requested in order to support SELE's scheduled shipment date of these buffets to Convair of September 25, 1961.

RLW:hs

Log No. 2519

F. S. Chambers Henager of Contracts GERETAL DYNAMICS/CONTAIR

Sales Order

Sold to:

REAL 5/A - Transportes Aereos

and Empress de Transportes

Brazil S/A

Reference:

(a) REAL letter FR 38/61

(b) REAL Letter FR 172/61 dated 18 September 1961 *Revised: 18 September 1961

Date: 26 July 1961

50 No: 600-8-48

WO No: 31,000 Series

CONVAIR 990 - REAL REGISTRATION NUMBERS

- (1) REAL Aircraft Registration Nos. 1/1/1/1, 1/1/1/1, and 1/1/1/1/2 have been assigned for identifying the turne (3) Model 30 aircraft Production Serial Nos. 13, 19, and 20.
- (2) All concerned are to proceed accordingly with this authorization.

OdRIN: Ha

Tog No. ____ 2721

Revised to add Ref. (b) and to change Registration Numbers.

F. S. Chambers

Manager of Commercial Contracts

GENERAL DYNAMICS/CONVAIR REAL MINUTES 3 August 1961 Model 30-8 REVISED: 13 Sept. 1961 Reference (a) Shipp his hop his his his his his hard has the second field at (b) CCP #43 10 September 196 CEIVED (c) MCL 62,117 Revised 25 July 1961 SEP 13'61 CONVAIR 990 - REAL INCREASED FUEL CAPACITY AND RAMP WEIGHT SPECIFICATIONS & These minutes, by the authority of Reference (a) Sales Order, directfurfected Engineering groups to proceed immediately with the task outlined in Reference (b), Increased Fuel Capacity and Ramp Weight, based upon MCL 62,117, Reference (c). The task is as follows: Increase outboard anti-shock body fuel as follows: 1. Replace existing Model 30-5 type outboard anti-shock bodies with Model 30-6 type outboard anti-shock bodies per drawing #30-16047-3 and -4. 2. Replace certain instruments with similar instruments except with red "full" line removed. (Dash number change). 3. Revise 22-91948 placard to change taxi weight and in-flight weight.

4. Change MLG tires from 22 PR to 24 PR.

Increase the fuel capacity of the center section by 45 gallons. This will be accomplished as follows:

1. Raise refuel pilot shutoff valve by substituting a one-inch higher "hat section" to bracket #30-21474.

2. Replace four (4) 3/8" refuel sense lines on isometric drawing #30-21486.

Incorporation of this change results in an increase of 78 pounds guaranteed weight empty per aircraft.

Engineering shall proceed immediately with the above task under EWO #1009, AWO #31540. An EWO shall be processed by ACTION: the Father Group (Propulsion Fluids) and forwarded to CIB immediately. This change shall be released to 30-8 #1 and on. Engineering Specification Group shall forward revised Specification pages to Contracts as soon as practicable.

AJS: JMC : con

6/40 GENERAL DYNAMICS/CONVAIR SPL AFICATIONS & No. 40 OFFICE SERVICES REAL MUNIFIES 28 July 1961 Model 30-8 Reference (A) Sales Order 600-8-48 dated 26 July 1961 Revised 18 September 1961 CONVAIR 990 - REAL REGISTRATION HUMBERS and the have been assigned for identifying the three (3) REAL Model 30 aircraft, Production Serial Nos. 13, 19, and 20. ACTION: Engineering shall proceed with the above task which is a part of the O.D. task. Specification Group shall forward necessary revised specification pages to the Contracts Department as seen as practicable. 27 Sept. 1961 AJB:JNC:cas

GENERAL DINANICS/CONVAIR

Sales Order

Sold to: HEAL S/A - Transportes Aereos

and Espresa de Transportes

Brazil S/A

Date: 3 July 1961

80 No: 600-8-46

Reference: (a) REAL Letter FR 148/61 dated 29 June 1961

(b) CCP No. 45 (c) MCL 62,031 WO No: 31,000 Series

CONVAIR 990 - REAL REVISION TO PITOT STATIC SYSTEM ILLUSTRATION

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Revision to Pitot Static System Illustration), based upon MCL 62,031, Reference (e). Accordingly, all departments concerned are directed to proceed with incorporation of the changes as outlined in Reference (s).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

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HBD: bs

Log No. 2160

F. S. Chambers

Managar of Commercial Contracts

REAL MINUTES

No. 39

10 July 1961

Model 30-8

Reference (a) Sales Order 600-8-46 dated 3 July 1961.
(b) MCL 62,031
(c) CCP #45

CONVAIR 990 - REAL REVISION TO PITOT STATIC SYSTEM ILLUSTRATION SPECIFICATION ADMINISTRATIVE CHARGE

REAL has accepted, as evidenced by Reference (a), Convair's proposal, Reference (c), based upon MCL 62,031, Reference (b).

Description of Change:

Page 51a - PITOT STATIC SYSTEM - ILLUSTRATION

Replace the existing illustration with revised illustration which shows individual EPR probes and separation of static sources for cabin outflow valves and cabin controller for reliability.

ACTION:

Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

> melone A. J. Savard Project Engineer

AJS:JMC:cas

GENERAL DYNAMICS/CONVAIR

Sold to: REAL S/A - Transportes Acress and Empresa de Transportes

Brazil 8/A

Reference: (a) REAL Letter FR 147/61, dated 29 June 1961.

(b) CCP No. 44 (c) MCL 62,030 Sales Order

Date: 3 July 1961

80 No: 600-8-45

WO No: 31,000 Series

CONVAIR 990 - REAL REVISION TO PARAGRAPH 3.10.1.2

- (1) REAL has accepted by Reference (a), Convir's proposal, Reference (b), Specification Administrative Change (Revision to Paregraph 3.10.1.2), based upon MCL 62,030, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the changes as outlined in Reference (c).
- (2) Engineering Specification Section will Forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

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HBD: he

Log No. 2359

Mulhat 1

F. S. Chambers Managar of Commercial Contracts REAL MINUTES

No. 38

10 July 1961

Model 30-8

Reference (a) Sales Order 600-8-45 dated 3 July 1961

(b) MCL 62,030 (c) CCP #44

> CONVAIR 990 - REAL REVISION TO PARAGRAPH 3.10.1.2 SPECIFICATION ADMINISTRATIVE CHANGE

REAL has accepted, as evidenced by Reference (a), Convair's proposal, Reference (c), based upon MCL 62,030, Reference (b).

Description of Change:

Page 28, Paragraph 3.10.1.2 AILERON SYSTEM:

Revise the fourth sentence as follows:

From: "The control mechanism shall be so designed that, with the airplane on the ground full throw of the control wheel will mechanically produce aileron movement."

To:

"The control mechanism shall be so designed that, with the airplane on the ground, full throw of the pilot's control wheel will mechanically produce spoiler, aileron flight tab, and aileron movement. On the ground, aileron movement will not be produced by full throw of the copilot's control wheel. Full spoilers and partial aileron flight tab only shall be activated by the copilot's control wheel on the ground."

ACTION: Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

A. J. Savard Project Engineer

AJS: JNC: CAS

GENERAL DYNAMICS/CONVAIR

Sales Order

Sold to: SAL S/A - Transportes Aereos

and Empresa de Transportes

Brazil 8/A

Date: 3 July 1961

80 Bo: 600-8-44

Reference: (a) REAL Letter FR 146/61, dated 29 June 1961

(b) CCP No. 19 (c) MCL 62,029 WO Nos 31,000 Series

CONVAIR 990 - REAL MANUFACTURER'S NAME AND/OR PART NUMBER

- (1) HRAL has accepted by Reference (a), Convair's proposal, Reference (b), Manufecturer's Hame and/or Part Number, based upon MCL 62,029, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the changes as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

RAN

BBD: ha

Log Ho. 2158

Mulhandle

F. S. Chambers Manager of Commercial Contracts REAL MINUTES

No. 37

10 July 1961

Mode 1 30-8

Reference (a) Sales Order 600-8-44 dated 3 July 1961 (b) MCL 62,029

(c) CCP #19

Convair 990 - REAL MANUFACTURER'S NAME AND/OR PART NUMBER

REAL has accepted, as evidenced by Reference (a), Convair's proposal, Reference (c), based upon MCL 62,029, Reference (b).

The intent of this change is to bring the Appendix I-C section of the specification up to date with the actual part numbers as presently called out on the Engineering drawings.

ACTION:

Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

> Medom! A. J. Savard Project Engineer

AJS:JMC:cas

GENERAL DYNAMICS/CONVAIR

Sales Order

Sold to:

REAL S/A - Transportes Aereos

and Express de Transportes

Brazil 8/A

Date: 20 June 1961

50 No: 600-8-43

References

(a) REAL Letter FR 138/61,

dated 15 June 1961

(b) CCP No. 41 (c) MUL 62,027 WO No: 31,000 Beries

CONVAIR 990 - REAL REVISION TO PARAGRAPH 3.2.2.1

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Revision to Paragraph 3.2.2.1), based upon MCL 62,027, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the changes as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

HED: hs

Log No. 2061

PF. S. Chambers

Munager of Commercial Contracts

8-122 6-122

GENERAL DYNAMICS - CONVAIR

. .

REAL NUMBER

No. 36

29 June 1961

Model 30-8

Reference (a) Sales Order 600-8-43 duted 20 June 1961

(b) KCL 62,027 (c) CCP #41

RECEIVED

CCEVAIR 990 - REAL REVISION TO PARAGRAPH 3.2.2.1 SPECIFICATION ADMINISTRATIVE CHANCE PROJECT SPEC. GROUP

REAL has accepted, as evidenced by Reference (a), Convair's proposal, Reference (c), based upon MCL 62,027, Reference (b).

Description of Change:

Fage 9, Paragraph 3.2.2.1 COLOR CODING:

Change the paragraph as follows:

From: "COLOR CODING: All sections of plumbing shall be color coded and banded in accordance with Military Standards and, in addition, marking shall indicate the direction of flow and the purpose of the line. The part number of each tubing assembly shall be identified. Color bands and part number identifications shall be plastic tape of fluid resisting material, in accordance with Standard AND 10375."

To: "COLOR CODING: All sections of plumbing, except engine and within fuel tanks, shall be color coded and banded.

All plumbing shall indicate the direction of flow and the purpose of the line. The part number of each tubing assembly shall be identified. Color bands shall be plastic tape in accordance with Standard AND 19375."

Action: Engineering Specification Section will formed necessary revised Specification pages to the Contracts Department as soon as practicable.

A. J. Severd Project Engineer

CONVAIR-SAN DIEGO

Sales Order

Sold to:

REAL S/A - Transportes Agrees

and Espresa de Transportes

Brazil S/A

6 June 1961

WO No: 31,000 Series

SO No: 600-8-42

Reference:

(a) REAL Letter, FR 130/61, dated 2 June 1961

(b) CCP No. 28 (c) MCL 62,018

CONVAIR 990 - REAL REVISION TO OXYCEN CYLINDERS

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Revision to Oxygen Cylinders), based upon MCL 62,018, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the changes as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised specification pages to the Contracts Department as soon as practicable.
- This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

RECEIVED

JUN 8'61 PROJECT SPEC. GROUP

Log No. 1914

7F. S. Chambers

Manager of Commercial Contracts

2. Methodo 6-122

CHNERAL DYNAMICS - CONVAIR

REAL MINUTES

No. 35

9 June 1961

Model 30-8

Reference (a) Sales Order 600-8-42 dated 6 June 1961

(b) MCL 62,018

(c) CCP #28

CONVAIR 990 - REAL REVISION TO OXYGEN CYLINDERS SPECIFICATION ADMINISTRATIVE CHANGE

RECEIVE JUN 12'61 PROJECT GROUP

REAL has accepted, as evidenced by Reference (a), Convair's proposal, Reference (c), based upon MCL 62,018, Reference (b).

Description of Change:

Page 6, Paregraph 3.1.2.2 - TYPICAL LOADING SUMMARY:

Revise the below item under "Fixed Meeful Load" as follows:

From: "Oxygen Bottles (4)

140 15"

To: "Oxygen Cylinders (4)

132 lb"

Page A-16, APPENDIX I-C, OXYGEN EQUIPMENT:

Revise the first item under "Description" as follows:

From:

"h "Cylinder, High Pressure Oxygen (107 cu ft.

with gages)

Zep Aero ZC-268-111 140.0"

To:

"4 "Cylinder, High Pressure

Oxygen (73 cu ft.,

with gages)

Zep Aero ZC-268-74-10 132.0"

ACTION:

Engineering Specification Section will Forward necessary revised Specification pages to the Contracts Department as soon as practicable.

Project Engineer

AJS: JMC:cas

Sold to:

PRevised: 17 May 1962 REAL S/A - Transportes Aerecs Dates

and Empresa de Transportes

Brazil 8/A

50 Nos 600-8-41

WO No: 31,000 Series

1 June 1961

(a) REAL letter FR 127/61, Reference: dated 31 May 1961.

CCP No. 34

MCI 62.094 (c)

(d) Minutes of Meeting - 5/14/62

CONVAIR 990 - REAL DOPPLER RADAR, REVISION TO PROVISIONS FOR

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Doppler Radar, Revision to Provisions for, based upon MCL 62,094, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change as outlined in Reference (c).
- Engineering Specification Section will forward nacessary revised Specification pages to the Contracts Department as soon as practicable.
- This change has no effect on aircraft weight empty. There is no effect on mireraft performance or delivery schedule.
- The following items ennufactured by Canadian Marcini Company were required by General Dynamics/Convair in order to accomplish the task covered by MCI. 62,094. Material Department is hereby authorized to issue a Purchase Order for the following:

3	Isolators 316-122	<u>Unit</u> 318.65	3 Aircraft 955.95
3	3 Ft. Lengths RG9B/U Ceble C/W UG21B/U Consector	14.75	44.25
3	Sets of Drawings 314-790 314-890		H/C

The above itsmized equipment is presently installed in Mudel 30-8 aircraft, Serial Nos. 13, 19 and 20.

17g No. 1089

*Revilsed to add Ref. (d) & Para. (4).

" F. S. Chambers

Manager of Commercial Contracts

2 Thatter

C O N V A I R
A Division of General Dynamics Corporation
(San Diego)

REAL MINUTES

6 June 1961

Model 30-8

No. 34

Reference:

(a) Sales Order #600-8-41 dated 1 June 1961

(b) MCL #62,094 (c) CCP No. 34

CONVAIR 990 - REAL

DOPPLER RADAR, REVISION TO PROVISIONS FOR

REAL has accepted, as evidenced by Reference (a), Convair's proposal, reference (c), based upon MCL 62,094, reference (b).

The task is as follows:

- A. On electronic rack shelf "F" (22-32550-3) revise existing doppler tracker unit provisions from ARINC 540 1/2 ATR size to 3/4 ATR to accommodate future installation of Canadian Marconi CMA-625 unit.
- B. Relocate existing doppler computer provisions on electronic rack shelf "F" to provide space for the enlargement of tracker unit provisions. (See A above)

NOTE: The antenna installation is compatible with existing provisions only if Canadian Marconi provides an adapter to install their antenna within the wing cavity.

RECEIVED

JUN 7'61

PROJECT SPEC, GROUP

ACTION: Cost and Schedules shall issue an EWO number to the affected Design Groups, suthorizing immediate go-shead. Cost and Schedules shall subsequently prepare and process an EWO form which shall reflect the task authorized by Sales Order Minutes. The EWO shall reflect the O/B and E/C schedules of 7/24 and 8/17 respectively as listed in the Action Record dated 25 April 1961. Specification Group shall forward revised Specification pages to Contracts as soon as practicable.

A.J. Savard Project Engineer

CONVAIR-SAN DIEGO

Accounting Sales Order

Sold to: HEAL S/A - Transportes Asreos

and Empresa de Transportes Acrovias

Brazil S/A Sao Paulo, Brazil Date: 31 May 1961

SO No: 600-8-40

WO No: 31,000 Series

CONVAIR 990 - REAL

CHANGE ORDER NO. 6

(1) Attached is a copy of Change Order No. 6 signed by REAL S/A - Transportes Aereos and Empresa de Transportes Aerevias Brazil S/A, which amends Datail Specification Report No. 2D-30-008, dated 2 May 1960, to incorporate the Specification Change Nos. 12, 13, 14, 15, 17, 18, 21, 22, 24, 25, 26, and 29, set out in Paragraph VI of said Change Order.

和

HHD: ha

Log No. 1879

F. S. Chambers

Managar of Commercial Contracts

cc: (all with attachment)

R. F. Ashe

Arthur Anderson & Co.

G. H. Blain

G. T. Boves

D. C. Burrous

F. S. Chembers

G. A. Dies, Jr.

D. H. Digges

J. D. Biland

R. D. Evans

O. W. Harper (w/attach. 2)

A. L. Hondricks

R. R. Hoover (w/attach. 2)

W. J. Jason

H. A. Kayes

V. S. Mathews (w/attech. 2)

C. L. Meador

R. C. Heal (w/exac. copy)

A. G. Rothlisbarg

C. C. Sawyer

I. D. Sylons

R. K. Waldo

R. B. Watts

J. G. Zevely

File (2)

CHANCE OF DER EO. 6

purguent to

Article 5 of Purchase Agreement dated 12 August 1957 by and between

REAL S/A - Transportes Aereos and Empresa de Transportes Aerovias Bruzil S/A and General Dynamics Corporation (Convair Division)

- I. The Datail Specification Report ZD-30-008 is hereby emended to reflect certain changes all as more particularly set forth in Specification Change Nos. 12, 13, 14, 15, 17, 18, 21, 22, 24, 25, 26, and 29, Commercial Change Proposal Summary No. 2 and Specification Revision Pages dated 20 March 1961 attached hereto and made a part hereof.
- II. Airplanes Affected:

Undelivered - 3

III. Effect on weight and balance:

As reflected in the Specification Changes and Commercial Change Proposal Summary No. 2 attached.

IV. Effect on performance:

As reflected in the Specification Changes and Commercial Change Proposal Summary No. 2 attached.

V. Effect on delivery:

None

- VI. This Change Order results in the following charges end/or credits:
 - A. Change No. 12--Structural Design Speed Limit for Flap and Leading Edge Device Operation with Single Hydraulic System Operating - Page 30

Ho Charges or Credita

B. Change No. 13--Alternate Control Cable Material - Page 28

Ho Charges or Credits

C. Change No. 14--Seat, Cabin Attendant, Additional; Installation of - Pages 1, 3b, 6, 9, 89, 90, 92, 104a, and A-1

> Total Hon-recurring Charges Recurring Charge per Aircraft

\$ 9,645

Total Charges for 3 Aircraft

\$ 11,928

CHARGE ORDER RO. 6

pursuant to

Article 5 of Purchase Agreement dated 12 August 1957 by and between

REAL S/A - Transportes Acreos and Empresa de Transportes Acrovias Brazil S/A and General Dynamics Corporation (Convair Division)

_					-
-	100				100
	D.	Change No. 15Enlarged Buffet Stowage Cabinet, Installation of - Pages 3b, 13, 93, 93a, 98, 100, A-1, and A-14		5	
		Total Mon-recurring Charges Recurring Credit per Aircraft	\$	4,803 1,188	
		Total Charges for 3 Aircraft	\$	1,239	
	Bo	Change No. 17 Revision to External Service Power System Language - Page 70	_		
	F.	Change No. 18Clarification of Interphone Station Locations - Page 84	MO	Charges or Credits	
	G.	Change No. 21Pilot and Copilot Seats, Change to - Page A-14	No	Charges or Credite	,
	_		Ho	Charges or Credite	,
	H.	Change No. ?2-Horisontal Stabilizer Machanical Motion Indicator System, Installation of - Page 29			
	I.	Change No. 24Change Drip Stick Calibration from Pounds to Inches - Page 41	No	Charges or Credits	}
	J.		No	Charges or Credits	J
			Ho	Charges or Credits	,
	K.	Change No. 26Replace Flight Illustration and Change Cabin Thermometer from F. to C Pages vii and 110			
	-		No	Charges or Credita	}
	Lo	Change No. 29Revision to Pilot and Copilot Seat Interchangeability - Pages 89 and 116			
	Mo	Summary of the foregoing charges and/or Credits:	Ho	Charges or Credits	
	3	Total Recurring Credit	\$	14,448 1,281	
		Total Charges for 3 Aircraft	\$	13,167	

CHANGE ORDER NO. 6

pursuant to

Article 5 of Purchase Agreement dated 12 August 1957 by and between

REAL S/A - Transportes Acrees and Empresa de Transportes Acrovias Brazil S/A and General Dynamics Corporation (Convair Division)

- VII. The attached Commercial Change Proposal Summary No. 2 and revised Specification Pages dated 20 March 1961 are hereby incorporated into and become a part of Detail Specification Report No. ZD-30-008 dated 2 May 1960.
- VIII. Except as herein modified all provisions of the Purchase Agreement and the Datail Specification shall remain in effect.

GENERAL DYNAMICS CORPORATION
By: /s/ F. S. Chambers

Title: Manager of Commercial Contracts

Accepted and Agreed to as of this 23rd day of May 1961.
real s/a - transportes abreos
By: /s/ Edwardo H. Alvarenga
Title: Director
empresa de transportes abrovias erazil s/a
By: /s/ Eduardo M. Alvarenga
Title: Director

CONVAIR - SAN DIEGO

SALES ORDER

Sold to:

REAL S/A - Transportes Aereos

and Empresa de Transportes

Brazil S/A

Date:

29 May 1961

so No: 600-8-39

Reference: (a) REAL Letter, FR 122/61,

dated 26 May 1961

(b) CCP No. 39

(c) MCL 62,026

WO No: 31,000 Series

CONVAIR 990 - REAL REVISION TO PARAGRAPH 3.16.8.2.3

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Revision to Paragraph 3.16.8.2.3), based upon MCL 62,026, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the changes as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

Log No. 1853

F. S. Chambers Managar of Commercial Contracts

C O N V A I R A Division of General Dynamics Corporation (San Diego)

REAL MINUTES

6 June 1961

No. 33

Model 30-8

Reference: (a) Sales Order 600-8-39 dated 29 May 1961

(b) MCL #62,026 (c) CCP No. 39

CONVAIR 990 - REAL

REVISION TO PARAGRAPH 3.16.8.2.3

SPECIFICATION ADMINISTRATIVE CHANGE

HEAL has accepted, as evidenced by Reference (a), Convair's proposal, reference (c), based upon MCL 62,026, reference (b).

Description of Change:

Page 67, Para. 3.16.8.2.3 PEDESTAL AND OVERHEAD PANEL LIGHTING:

Delete the last two sentences which read as follows:

"Separate control shall be provided for the forward and aft pedestal panels. The forward panel light control shall be located on forward panel."

RECEIVED

JUN 7'61

PROJECT SPEC. GROUP

ACTION: Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

A. J. Savard Project Engineer

AJS:JMC:re

CONVAIR - SAN DIEGO

SALES ORDER

Sold to: REAL S/A - Transportes Aereos

and Empresa de Transportes

Brazil S/A

Date: 29 May 1961

SO No: 600-8-38

Reference: (a) REAL Letter, FR 121/61, dated 25 May 1961

(b) CCP No. 38 (c) MCL 62,025 WO No: 31,000 Series

CONVAIR 990 - REAL REVISION TO FIRE COMPROL PANEL AND WARNING HORN DIAGRAM ILLUSTRATIONS

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Revision to Fire Control Panel and Warning Horn Diagram Illustrations), based upon MCL 62,025, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the changes as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

MADI

HBD: hs

Log No: 1849

JeF. S. Chambers

Managar of Commercial Contracts

REAL MIMUTES

2 June 1961

Reference (a) Sales Order 600-8-38 dated 29 May 1961

(b) CCP 38 (c) MCL 62,025

CONVAIR 990 - REAL REVISION TO FIRE CONTROL PAREL AND WARRING HORN DIAGRAM ILLUSTRATIONS SPECIFICATION ADMINISTRATUVE CHANGE

REAL has accepted by Reference (a), Convair's proposal, Reference (b), based upon MCL 62,025, Reference (c).

Description of Change:

Page vi, LIST OF ILLUSTRATIONS:

Revise the below item as follows:

"Warn Horn, Landing Gear Control and Landing From:

Gear Position Systems

738

"Warning Horn Diagrem D:

738"

Page 48d, FIRE CONTROL PAREL:

Replace the existing illustration in the specification with a revised illustration which includes wheel well indicator lights.

Page 73a, WARN HORN LANDING GEAR CONTROL & LANDING GEAR FOSITION SYSTEMS:

Replace the existing illustration with the revised illustration which includes all warning circuits, to make it consistent with the actual installation, and to standardize illustration title.

ACTION:

Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

t Engineer

RECEIVED

JUN 6'61

PROJECT SPEC. GROUF

AJBINC: cas

**nevised: 1961. "Hevised: Til 1/2 - Transportes tarres 24 Missy eforence. (a) Matoric Verded Aircraft Squipment 31,000 SarvikE Regularment Schedule dated 18 agust SEP 1 1 '61 SPECIFICATIONS & CONVAIR 990 - REAL OFFICE SERVICES CANOSLLED CUSTOMER VENERO EQUILIFIER (1) Asia ruce (a) sets forth the items of equipment which will be vended by FRAL. for invaliation in their Convair 950 aircraft pursuant to appendix T-A of metal localization Report No. 2D-30-008 dated 2 May 1961. Naterial Revertaget, CPE Section, is requested to requestion a purchase order covering the Views set cut in the requirement schedule under Reference (a). The on deck meet order reflected in said schedule should be reflected in the purchase order. When prives for insterial being wanted have been established by the customer, such information will be provided the Firehasing Repartment by memorondum. (3) The Purchase Order is to be directed to the following address (with copies to D. H. Stillman, Air Carrier Service Corporation, 1510 H Street, Mosthwest, Washington 5, D. C.) and D. to contain shipping and special instructions set forth below: ADDIES: REAL Breasporter Acrees, S. A. Run Convelheir, Crispiniano 379-20 Ambar Sao Paulo, Venzil Attentions r. Eduardo Alvarenga SELFFING THETROCKY INS: Shi to: Convai Beceiving Copa theut Rene Janyow Facili San Liego, Californi Attention: GFM Stores NOTE: (a) All equipment is to be clearly identified as MEAL Airlines equipment.

b) Not to be prad by check. c) As require FAA qualification or adequate substantiating data is REAL's re ponsibility. (4) The deceiving Repayment is to forward the above material upon receipt to OFE Stores to be held for ultimate installation in the customer's sirroraft and to furnish tos Contracts Experiment six copies of the Receiving Suports covering receipt of suc material for transmitted to the customer. There are in costs to the customer in connection with this falms Vrder FOR ACC UPCING DEPAREMENT ONLY When or les for material being vented by RRAL Airlines have been established to to a Sales Order.
Throfar as possible, all items received and installed hereunder are to be insectional. cheried for correct speration and also for correct functioning of the related aircraft 2648 GO Sevised to add Pars. (7) Sales C r 600-8-50. The second of the con-

CONVAIR - SAN DIEGO

SALES ORDER

Sold to: REAL S/A - Transportes Aereos

Date: 15 May 1961

and Empresa de Transportes Brazil S/A

SO No: 600-8-36

Reference: (a) REAL Letter, FR 112/61, dated 12 May 1961

WO Nos 31,000 Series

(b) CCP No. 37 (e) MCL 62,024

CONVAIR 990 - REAL REVISION TO PILOTS PEDESTAL ILLUSTRATION

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b) Specification Administrative Change (Revision to Pilots Pedestal Illustration), based upon MCL 62,024, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the changes as outlined in Reference (c).
- Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable,
- This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

Log No. 1734

17F. S. Chambers

Manager of Commercial Contracts

REAL MINUTES

No. 31

16 May 1961

Model 30-8

Reference (a) Sales Order 600-8-36 dated 15 May 1961 (b) NGC 62,024

(c) CCP #37

CONVAIR 990 - REAL REVISION TO PILOTS PEDESTAL ILLUSTRATION SPECIFICATION ADMINISTRATIVE CHANGE

REAL has accepted, as evidenced by Reference (a), Convair's proposal, reference (c), based upon MCL 62,024, Reference (b).

Description of Change:

Page 47b, PILOT'S AND COPILOT'S PEDESTAL:

Replace the above illustration in the specification with a new enclosure which revises the stabilizer trim control, edds "ATC-DUAL PROVISIONS", "FIAP ASYMMETRY TEST SWITCH", "FUSE-PROESTAL LIGHTS", "WARNING HORN CUTOUT SWITCH", and shows minor nomenclature changes in callouts.

ACTION:

Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

Project Engineer

AJS: JMC: Cas

CONVAIR - SAN DIEGO

SALES ORDER

Sold to: REAL S/A - Transportes Asreos

and Empresa de Transportes

Brazil S/A SO

Reference: (a) REAL Letter, FR 111/61,

dated 12 May 1961 (b) CCP No. 35

(a) MCL 62,023

Date:

15 May 1961

SO No:

600-8-35

WO No.

31,000 Series

CONVAIR 990 - REAL REARRANGEMENT OF INSTRUMENTS AND REVISION TO PILOTS INSTRUMENT PANEL ILLUSTRATION

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Rearrangement of Instruments and revision to Pilots' Instrument Panel Illustration), based upon MCL 62,023, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

HBDsmd

Log No. 1735

F. S. Chambers

Manager of Commercial Contracts

REAL MINUTES

No. 30

16 May 1961

Model 30-8

Reference (a) Seles Order 600-8-35 dated 15 May 1961

(b) MCL 62,023 (c) CCP #35

CONVAIR 990 - REAL
REARRANGEMENT OF INSTRUMENTS AND REVISION
TO PILOTS' INSTRUMENT PANEL ILLUSTRATION
SPECIFICATION ADMINISTRATIVE CHARGE

REAL has accepted, as evidenced by Reference (a), Convair's proposal, Reference (c), based upon NCL 62,023, Reference (b).

Description of Change:

Page 34, Paragraph 3.12.4.3 TACHOMETER GENERATORS:

Delete the second sentence which reads as follows:

"A warning light shall be installed on the pilots' center instrument panel for each fan tachometer to indicate overspeeding."

Page 47, Paragraph 3.14.1.1 PILOT'S INSTRUMENTS:

Add the following item to the instrument list:

""One true airspeed indicator"

Page 47, Paragraph 3.14.1.2 COPILOT'S INSTRUMENTS:

Delete the below item from the instrument list:

"#One true air speed indicator"

Page 47a, PILOTS' AND COPILOTS' INSTRUMENT PANEL:

Replace the above illustration in the specification with revision which agrees with the actual instrument arrangement.

Page 48, Paragraph 3.14.1.3 CENTER PANEL INSTRUMENTS:

Add the following item to the instrument list:

"Four engine fan tachometer indicators"

Page 48, Paragraph 3.14.1.4 FLICHT ENGINEER'S INSTRUMENTS:

Delete the below item from the instrument list:

"Four engine fan tachqueter indicators"

Page A-6, APPENDIX I-C, INSTRUMENTS AND RELATED EQUIPMENT:

Revise the below item under "ENGINE INSTRUMENTS - GENERAL" as Tollows:

From: "4 Indicator, Tachomster (Fan) Gen. Elect. 8DJ811AT-1"

TO: "*4 Indicator, Tachometer (Fan) Gen. Elect. 8DJ811AT-1 or -2"

The following shall not appear in the specification language:

The deletion of the fan tachometer overspeed indicator lights is proposed since this warning feature will not be required with the fan tachometer indicators being located on the center engine panel. Also, the relocation of these indicators to the engine panel necessitates activation of integral lighting of these instruments.

ACTION: Engineering Specification Section will forward

necessary revised Specification pages to the Contracts Department as soon as practicable.

A. J. Savard Project Engineer

AJS:JMC:cas

CONVAIR - SAN DIEGO

Sales Order

REAL S/A - Transportes Aereso Sold to:

and Empresa de Transportes

Brazil S/A

1 May 1961 Date:

SO No: 600-8-34

WO No: 31,000 Series

(a) REAL Letter, FR 100/61, Reference:

dated 28 April 1961

(b) CCP No. 33

(c) MCL 62,022

CONVAIR 990 - REAL REVISION TO PARAGRAPH 3.12.9.7.1, APPENDIX I-C AND EMERGENCY EXIT FLOW ILLUSTRATION

- (1) REAL has accepted by Reference (a), Conveir's proposal, Reference (b), Specification Administrative Change (Revision to Paragraph 3.12.9.7.1, Appendix I-C and Emergency Exit Flow Illustration), based upon MCL 62,022, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

Log No. 1639

of Commercial Contracts

. Matters
ATTON 6-122

REAL MINUTES

No. 29

11 May 1961

Model 30-8

Reference (a) Sales Order 600-8-34 dated 1 May 1961

(b) MCL 62,022

(c) CCP #33

CONVAIR 990 - REAL
REVISION TO PARAGRAPH 3.12.9.7.1, APPENDIX I-C
AND EMERGENCY EXIT FLOW ILLUSTRATION
SPECIFICATION ADMINISTRATIVE CHANGE

REAL has accepted, as evidenced by Reference (a), Convair's proposal, Reference (c), based upon MCL 62,022, Reference (b).

Description of Change:

Page 20a, ENERGENCY EXIT FLOW AND ESCAPE FACILITIES:

RECEIVED

Replace the above illustration in the specification with the Revised Page 20a.

MAY 12'61

Page 40, Paragraph 3.12.9.7.1 GENERAL:

PROJECT SPEC. GROUP

Delete the first six lines at top of page 40.

Page A-17, APPENDIX I-C, PYROTECHNICS:

Delete the below item under "Description":

"2 Flare Dispensers

Convair

(P/N to be supplied)"

The following shall not appear in the specification language:

That portion of Paragraph 3.12.9.7.1 appearing at the top of Page 40, is repetitious in part with the complete paragraph on Page 39. Therefore, deletion of the Page 40 portion of Paragraph 3.12.9.7.1 is proposed.

The deletion of flare dispensers from the Appendix section of specification is proposed for consistency with Convair policy not to list items manufactured by Convair. This equipment is given adequate coverage in Paragraph 3.19.2.6.1.

The "Emergency Exit Flow" illustration presently in specification, was preliminary. Revised Page 20a shows the actual airplane exit flow arrangement.

ACTION:

Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

A. F. Savard Project Engineer

AJS:JMC:cas

Tavised: 8 May 1961

NEAL U/A - Temperation receous and Ballessa le l'inscaroches

(a) HEAL Lautter, FR 95/61, deted 15 April 1961

MCI of 014

Wo No: 31,000 Service

CONVACE 990 - BEAL FUSCICLIANGOAS REVISIONS TO SPECIFICATION LABORAGE

- (1) 1801, has accepted by Reference (a), Countil a proposal, Reference (a), The Affination Administrative Change (Miscellansons Borisions to perification Language), based upon MCL 62,014. Accordingly, all inverteents converget are directed to proceed with incorporative of the change as cutlined in Reference (c).
- (a) Anginaering Specification Section will forward measury reviset positiontion pages to the Contracts Department as good as practically
- this through her no effect on sircust weight empty. There is no effect a sirvaft performance or delivery achedules.
- This Salas Order reviesd to delete that much of CCP 23 which calls for the deletion of control panels, I Selval (dual channel) in Appendix I-C, Electronic Equipment.

WED-NO

1684

Revised to add Pers. (h).

Haneser of Commercial Contracts

REAL MINUTES

No. 28

10 May 1961

Model 30-8

Reference (a) Sales Order 600-8-33 dated 26 April 1961, Revised 8 May 1961

(b) MCL 62,014

(c) CCP #23

CONVAIR 990 - REAL MISCELLANEOUS REVISIONS TO SPECIFICATION LANGUAGE SPECIFICATION ADMINISTRATIVE CHANGE

REALhas accepted, as evidenced by Reference (a), Convair's proposal, Reference (c), based upon MCL 62,014, Reference (b).

Description of Change:

Page 55, Paragraph 3.15.1.1 - Description and Components:

In the fourth line, delete the word "boost"

In the eighth line, add "rudder" between "devices" and "fuel"

Page 67, Paragraph 3.16.8.3.6 - Signs:

Revise the first paragraph to read as follows:

"Illuminated and legible "NO SMOKING" and "FASTEN SEAT HELTS" signs shall be provided in the passenger cabin and a "RETURN TO CABIN" sign shall be provided in each lavatory. An illuminated sign shall be installed on the aft surface of each of the three passenger compartment dropped ceilings which shall read as follows: "NO SMOKING-PASTEN SEAT HELT". Another forward illuminated sign shall be installed on the aft face of the pilots' door drop ceiling in the passenger compartment entryway area and shall read as follows: "LAVATORIES-VACANT-OCCUPIED". A switch for the "NO SMOKING" sign and a switch for the "FASTEN SEAT HELT" and "NO SMOKING" signs shall be installed which shall automatically illuminate these signs whenever the oxygen masks are popped out".

In the eighth line of second paragraph, change "both" to "the".

Add the following to the end of second paragraph:

"An illuminated "NO SMOKING" and "FASTEN SEAT BELT" sign shall be installed on the sidewall, or at a suitable location, in the crew rest area".

Page 69, Paragraph 3.16.8.3.8 - Buffet and Cost Compartment Lighting:

In the sixth line, insert the word "fixed" between "the" and "cost".

Page 99, Paragraph 3.19.3.1.2 - Movable Coat Dividers:

Revise the next to the last sentence as follows:

From: "Each right hand coat divider shall include an illuminated "NO SMOKING" and "FASTEN SEAT BELT" sign (Portuguese and English)"

To: "An illuminated "LAVATORIES-VACANT-OCCUPIED" sign shall be installed on the forward right hand coat divider, and illuminated "NO SMOKING" and "FASTEN SEAT BELT" signs shall be installed on the aft right hand coat divider (Portuguese and English)"

Page A-13, Appendix I-C, Landing Gear Equipment:

In ""Tire, Nose Wheel", charge "Tread Depth" from ".32" to ".31"

Page A-15, Appendix I-C, Convair Furnished:

Change the below item under "Description" as follows:

From: "3 Reel, Inertia"

To: "4 Reel, Inertia"

ACTION:

Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

ect Engineer

AJS:JS:cas

CONVAIR - SAN DIEGO

Sales Order

Sold to: REAL S/A - Trans

REAL S/A - Transportes Aereos

and Empresa de Transportes

Brazil S/A

Date: 20 April 1961.

so No: 600-8-32

Reference:

(a) REAL Letter, FR 89/61, dated 20 April 1961

(b) CCP No. 32 (c) MCL 62,021 WO No: 31,000 Series

COMVAIR 990 - REAL REVISION TO LEADING ROLL DEVICE AND FLAP OPERATION LANGUAGE

- (1) REAL has accepted by Reference (a), Convair's proposed, Reference (b), Specification Administrative Change (Revision to Leading Edge Device and Flap Operation Language), based upon NCL 62,021. Accordingly, all departments concerned are directed to proceed with incorporation of the change as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on sircraft performance or delivery schedule.

HED: ha

Log No. 1566

F. S. Chambers
Hanagar of Commercial Contracts

REAL MINUTES

No. 27

25 April 1961

Model 30-8

Reference (a) Sales Order 600-8-32 dated 20 April 1961

(b) MCL 62,021

(c) CCP 32

CONVAIR 990 - REAL
REVISION TO LEADING EDGE DEVICE AND FLAP OPERATION LANGUAGE
SPECIFICATION ADMINISTRATIVE CHANGE

REAL has accepted, as evidenced by Reference (a), Convair's proposal, Reference (c), based upon NCL 62,021, Reference (b).

Description of Change:

Page 30, Paragraph 3.10.2.1 LIFT AND DRAG INCREASING DEVICE SYSTEMS:

Revise the second sentence as follows:

From: "Each control system shall be operated by a hydraulic motor driven gear box located in the fuselage and powered by both hydraulic systems."

To: "The leading edge device control system shall be operated by a hydraulic motor driven gear box located in the fuselage and powered by both hydraulic systems. The trailing edge flap control system shall be operated by a hydraulic motor driven gear box located in the fuselage and powered normally by one hydraulic system with the other hydraulic system available as a pilot selected alternate."

Page 55a, HYDRAULIC SYSTEM:

Revised illustration which shows 100 percent flap power evailable from either No. 1 or No. 2 Systems.

ACTION: Engineering Specification Section will forward necessary revised specification pages to the Contracts Department as soon as practicable.

A. J. Savard Project Engineer

CONVAIR - SAN DIECO

BALES ORDER

Sold to:

RRAL S/A - Transportes Agrees

and Empresa de Wansportes

Brazil 8/A

Asference:

(a) REAL Letter, FR 73/61, dated 29 March 1961

(b) CCP No. 27 (c) MCL 62,093

Date: 31 March 1961

90 No: 600-8-31

WO No: 31,000 Series

CONVAIR 990 - HEAL ADJUSTABLE HEAD RESTS, DELETION OF

- (1) RBAL has accepted by Reference (a), Convair's proposal, Reference (b), Adjustable Head Rests, Deletion of, based upon NCL 62,093, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change as outlined in Reference (c).
- (2) Engineering Specification Section will forward mecessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) Immorporation of this change results in a decrease of 56 pounds per aircraft. There is no effect on aircraft performance or delivery schedule.

HBD:b

Log Ho: WATO

7 Thowhers

Manager of Commercial Contracts

V. Macheus 6-122 CONVAIR-SAN DIEGO/CONVAIR DIVISION OF GENERAL DYNAMICS CORPORATION REAL MINIPURS No. 25 12 April 1961 Model 30-8 and 30-5 #26 through 38 Reference (a) S. O. 600-8-31 dated 31 March 1961 (b) MCL 62,093 RECEIVED (c) CCP #27 APR 13'61 CONVAIR 990 - REAL ADJUSTABLE HEAD RESTS, DELETION OF PROJECT SPEC. GROUF REAL has accepted by Reference (a), Convair's proposal, Reference (c), based upon MCL 62,093, Reference (b).

Description of Change:

Page 91, Paragraph 3.19.1.1.6 PASSENGER SEATS:

Delete the 17th sentence which reads as follows:

"All first class seats shall be provided with edjustable headrests, except the forwardmost left hand aft facing seat."

Incorporation of this change results in a decrease of 56 pounds per aircraft. There is no effect on aircraft performance or delivery schedule.

ACTION:

Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

These minutes authorise immediate go-ahead on the above task. Budget required shall be negotiated. EWO's shall be prepared immediately for submittal to CEB to resolve schedule incompatibility.

A. J. Bavard Project Engineer

AJS: JMC:cas

SALES ORDER 6-/22

CONVAIR - San Diego

Sold to:

REAL S/A - Transportes Aerece

and Empresa de Transportes

Brazil 8/A

Date: 10 March 1961

80 No: 600-8-30

Reference:

(a) REAL Letter, FR 43/61, dated 10 March 1961

CCP No. 15 (e) MCL 62.089 WO No: 31,000 Series

CONVAIR 990 - REAL ENLARGED BUFFET STOWARD CABINET, INSTALLATION OF

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Enlarged Buffet Stowage Cabinet, Installation of, based upon MCL 62,089, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change as cutlined in Seference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) Incorporation of this change results in an increase of 40 pounds par aircraft. There is no effect on aircraft performance or delivery schedule

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PROJECT SPEC. GROUP

log Bo: 1157

T. S. Chambers Manager of Commercial Contracts CONVAIR-MAN DIEGO/CONVAIR DIVISION OF GENERAL DYNAMICS CORPORATION

REAL MINUTES

No. 24

3 April 1961

Model 30-8

& Hathers

Reference (a) Sales Order 600-8-30, dated 10 March 1961

(b) MCL 62,089

(c) CCP No. 15

(d) AVO Chief Engineer dated 28 March 1961

ENLARGED BUFFET STOWAGE CABINET, INSTALLATION OF

Real has accepted by Reference (a), Conwair's proposal, Reference (b) based upon MCL 62,089, Reference (c).

Description of Change

INTERIOR ARRANGEMENT - STANDARD AND MIXED SEATING (Page 36)

Illustration will be revised to show enlarged buffet storage cabinet in liou of existing smaller buffet cabinet and forward L.H. coat rack.

Page 13, Paragraph 3.4.4 LOADS:

Revise the last item in the paragraph as follows

"Buffet Stowage Cabinet From:

400.0 1ъ"

To: "Buffet Stowage Cabinet

800.0 1Ъ"

Page 3.19.2.1.1 BUFFET:

Revise the fifth sentence as follows:

"A Buyer furnished stowage locker shall be installed forward of the forward From: left hand coat stowage divider for buffet service items."

To: "A Buyer furnished stowage cabinet for buffet service items shall be install on the forward left hand side of the airplane in such position that aft fact of cabinet is in line with the aft face of forward right hand movable coat divider. The lawer aft portion of this stowage cabinet shall be provided with a footwell."

Page 93a, PLAN VIEW - BUFFETS:

Allustration will be revised to she enlarged cabinet for buffet service stowage in lieu of existing smaller buffat cabinet.

Page 98, Paragraph 3.19.3.1.2 MOVABLE COAT DIVIDERS:

Revise the first and second sentences as follows:

"Movable cost dividers, consisting of one right hand assembly and one left hand assembly, shall be installed. One set shall be installed forward, and one set shall be installed to divide the first class and coach passengers; all as shown on page 36 - INTERIOR ARRANGEMENT - STANDARD MIX."

To: Movable coat dividers consisting of two right hand units and one left hand unit shall be installed. One right hand and left hand unit shall be installed to divide the first class and coach passengers, and one right hand unit shall be installed forward; all as shown on Page 3b - INTERIOR ARRANGEMENT - STANDARD - MIXED."

Page 100, Paragraph 3.19.3.5 CURTAINS AND SHADES:

Revise the fourth sentence as follows:

From: "Aisle curtains shall be installed at the forward and aft movable coat dividers."

To: "Aisle curtains shall be installed between the forward right hand movable coat divider and the buffet stowage cabinet and at the aft movable coat dividers."

Page A-1, APPENDIX I-A, BUYER FURNISHED - CONVAIR INSTALLED:

Revise the below item under "Description" as follows:

From: "1 Stowage locker, Buffet Service 100.0"

To: "1 Stowage Cabinet, Buffet Service 200.0"

Page A-14, APPENDIX I-C, FURNISHINGS:

Review the below item under "Description" as follows:

From: "2 Divider, Movable Coat (L.H.) (Including Stowage Box) Convair"

To: "I Divider, Movable Cost (L.H.) (Including Stowage box) Convair"

Effect on Weight Empty: +40.0 pounds

Effect on Balance +19,800 inch-pounds

Effect on Performance: None

ACTION: Engineering is authorised by reference (d) to proceed immediately with the task described in reference (b). EWO's are to be submitted to Cost and Schedules within 10 days and shall be in agreement with the task estimated cost and schedules of reference (b). Specification revisions in accordance with reference (c) are to be forwarded to Contracts.

A. J. Savard Project Engineer

SALES ORDER

6-122

Sold to:

REAL S/A - Transportes Aereos

and Empresa de Transportes

Brazil 8/A

(a) REAL Letter, IRE-FR 34/61,

dated 6 March 1961

(b) CCP No. 29 (c) MCL 62,019 Date: 8 March 1961

SO No: 600-8-29

WO No: 31,000 Series

CONVAIR 990 - REAL REVISION TO PILOT AND COPILOT SEAT INTERCHARGEABILITY

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Revision to Pilot and Copilot Seat Interchangeability), based upon MCL 62,019. Accordingly, all departments concerned are directed to proceed with incorporation of the change as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

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PROJECT SPEC. GROUP

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F. S. Chambers Manager of Commercial Contracts

C O N V A I R A Division of General Dynamics Corporation (San Diego)

REAL MINUTES

No. 22

15 March 1961

Model 30-8

Reference (a) Sales Order 600-8-29 dated 8 March 1961

(b) MCL 62,019

(c) CCP #29

CONVAIR 990 - REAL REVISION TO PILOT AND COPILOT SEAT INTERCHANGEABILITY SPECIFICATION ADMINISTRATIVE CHARGE

REAL has accepted, as evidenced by Reference (a), Convair's proposal, Reference (c), based upon MLL 62,019, Reference (b).

Description of Change:

Page 89, Paragraph 3.19.1:1.2 - PILOT'S AND COPILOT'S SEATS:

Delete the fourth sentence which reads as follows:

"The pilot's and copilot's seats shall be interchangeable between stations by relocating edjustment controls from left to right side of seat or vice werea and transfer of log book holder".

Page 116, Paragraph 3.23.2 - EQUIPMENT INTERCHARGEABILITY:

Revise the below item under "a. Interchangeable Farts" as follows:

From: "Pilot's and Copilot's seat assembly (with exceptions noted in 3.19.1.1.2)"

To: "Pilot's Seat Assembly Copilot's Seat Assembly"

ACTION: Engineering Specification Section will forward necessary revised Specification Pages to the Contracts Department as soon as practicable.

O-Blood

Project Engineer

SALES ORDER

Sold to:

REAL S/A - Transportes Aereos

and Empresa de Transportes

Brazil S/A

Date: 7 March 1961

80 No: 600-8-28

Reference:

(a) REAL Letter, FR 37/61 dated 7 March 1961,

(b) CCP No. 14 (c) MCL 62,096 WO No: 31,000 Series

CONVAIR 990 - REAL SEAT, CABIN ATTENDANT, ADDITIONAL; INSTALLATION OF

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Seat, Cabin Attendant, Additional; Installation of, based upon MCL 62,096. Accordingly, all departments concerned are directed to proceed with incorporation of the change as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) Incorporation of this change results in an increase of 48 pounds per aircraft. There is no effect on aircraft performance or delivery schedule.

HBD: bas

Log No: 1091

F. S. Chambers

Manager of Commercial Contracts

REAL MINUTURES

No. 23

11 April 1961

Model 30-8

Reference (a) Sales Order 600-8-28 dated 7 March 1961

(b) MCL 62,096

(c) CCP #14

(d) AVO Chief Engineer dated 11 April 1961 COMVAIR 990- REAL

SEAT, CARIN ATTENDANT, ADDITIONAL; INSTALLATION OF

REAL has accepted by Reference (a), Convair's proposal, Reference (c), based upon MLL 62,096, Reference (b).

Description of Change:

Page 1, Paragraph 1.1 BASIC TYPE:

In the seventh line, change "71" to "72".

Page 3b, INTERIOR ARRANGEMENT - STANDARD AND MIXED STATING:

Above illustration will be revised to show a cabin attendant seat on the inboard end of No. 1 Buffet.

Page 6, Paragraph 3.1.2.2 TYPICAL LOADING SURGARY:

In third line from top, change "(103-passenger)" to "(104-passenger)".

Under "Space Limit Payloads", delete the asteriak before "Fassonger" and change "(103)" to "(104)", and "(71)" to "(72)"; change "16,995" to "17,160", change "32" to "33", change "2,112" to "2,178", change "6,894" to "6,828", change "29,125" to "29,290".

Delete the single esteriak note on lower part of page which reads:

""One of five cabin attendants is assumed in a coach seat."

Page 9, Paragraph 3.2.1 GENERAL INTERIOR ARRANGEMENTS:

"In the first sentence, change "103-passenger" to "(104-passenger)".

Page 89, Paragraph 3.19.1 GENERAL:

"In the first sentence, change "103 passengers" to "104 passengers".

Page 90, Paragraph 3.19.1.1.4 CARIN ATTENDANTS' SEATS

In the first sentence, change "Three" to "Four".

Add the following efter the fourth sentence:

"One Buyer-furnished single seat on the inboard end of No. 1 buffet."

Page 92, Paragraph 3.19.1.1.7 SAFETY BELIES:

Revise the fourth sentence as follows:

From: "The aft stewardess safety belt and shoulder horness shall be Buyer furnished."

To: "The aft cabin attendant coat and cabin attendant scat at
No. 1 Buffet shall be provided with Buyer furnished safety
belts and shoulder harmones."

Page 10ta, CASBOUS OXYGEN SYSTEM:

Above illustration will be revised to show oxygen facility at forward buffet area for use of cabin attendant.

Page A-1, APPENDIX I-A, BUYER FURNISHED - CONVAIR INSTALLED:

Revise the first item as follows:

From: "5 Buffets (including decorative trim panels closing 1348.0 trim and provisions for insert and storage items, one stowardess seat, safety belt and shoulder harness)"

To: "5 Buffets (including decorative trim panels, closing 1383.0 trim and provisions for insert and storage items, two cabin attendant ceats, two safety belts, and two shoulder harnesses).

This change results in a weight increase of 48 pounds per aircraft.

ACTION: Engineering is authorized by reference (d) to proceed immediately with the task described above. Engineering shall be released on an expedited basis on modification type drawings. Specification group shall forward revised specification pages to contracts as soon as practical. Engineering shall process an EWO to accomplish this task reflecting the O/B date of 4/17 and F/R date of 5/8 as reflected upon the Action Record Sheet dated 1/27/61.

Project Engineer

SALES ORDER

Sold to:

REAL S/A - Transportes Aerec

and Empresa de Transportes

Brazil S/A

Dute:

15 February 1961

50 No: 600-8-27

Reference:

(a) REAL Letter, MAN-043/61,

dated 8 February 1961

(b) CCP No. 18

(c) MCL 62,012

WO No: 31,000 Series

CONVAIR 990 - REAL CLARIFICATION OF INTERPHONE STATION LOCATIONS

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Clarification of Interphone Station Locations), based upon MCI. 62,012. Accordingly, all departments concerned are directed to proceed with incorporation of the change as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

Log No. 751

7.07 D. H. Digges Manager of Contracts

C O N V A I R A Division of General Dynamics Corporation (San Diego)

REAL MINUTES 20 February 1961 No. 20 Model 30-8

Reference (a) Sales Order #600-8-27 dated 15 February 1961

(b) MCL-CPO #62,012

(c) CCP #18

CONVAIR 990 - REAL CLARIFICATION OF INTERPHONE STATION LOCATIONS SPECIFICATION ADMINISTRATIVE CHANGE

REAL has accepted, as evidenced by Reference (a), Convair's proposal, Reference (c), Specification Administrative Change (Clarification of Interphone Station Locations), based upon MCL 62,012 Reference (b).

Description of Change

Page 84, Paragraph 3.17.2.3.4 - SERVICE INTERPHONE:

Revise the third sentence to read as follows:

"Pilot compartment (centrally located), cabin attendants' stations, station at each engine pod, nose wheel well, main wheel wells, aft left hand lavatory, fuselage tail cone, hydraulic compartment, drinking water tank area, at the antenna tuner location in the vertical tail and at the external electrical power receptacle".

ACTION:

Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

Project Engineer

SALES ORDER

Sold to:

HEAL S/A - Transportes Aereos

and Rapresa de Transportes

Brazil S/A

Reference:

(a) REAL Letter, FR 22/61, dated 9 February 1961

(b) CCP No. 26 (c) MCL 62,017

Date: 13 February 1961

30 No: 600-8-26

WO No: 31,000 Series

CONVAIR 990 - REAL REPLACE FLIGHT ILLUSTRATION AND CHANGE CABIN THERMOMETER FROM F. TO C.

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Replace Flight Illustration and Change Cabin Thermometer from F. to C.), based upon MCL 62,017, Reference (c). Accordingly, all departments concrared are directed to proceed with incorporation of the change as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or dalivery schedule.

Log No. 738

ウップ D。H。Digges Manager of Contracts

CONVAIR A Division of General Dynamics Corporation (San Diego)

REAL MINUTES

No. 21

27 February 1961

Model 30-8

Reference (a) Sales Order 600-8-26 dated 13 February 1961 (b) MCL 62,017

(c) CCP #26

SPECIFICATION ADMINISTRATIVE CHANGE

CONVAIR 990 - REAL
REFLACE FLIGHT ILLUSTRATION AND CHANGE CABIN THERMOMETER FROM F. TO C.

REAL has accepted, as evidenced by Reference (a), Convair's proposal, Reference (c), based upon MCL 62,017, Reference (b).

Description of Change:

Page vii, Airplane in Flight Illustration

Replace above illustration in specification with revised illustration.

Page 110, Paragraph 3.20.1.10.2 TEMPERATURE INDICATION:

In the last sentence, change "F." to "C."

ACTION: Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

ect Engineer

CBS

SALES ORDER

Sold to: REAL S/A - Transportes Aerecs

and Empresa de Transportes

Brazil S/A

Date:

2 February 1961

Reference: (a) REAL Letter, FR 20/61

dated 1 February 1961

SO No:

WO No: 31,000 Series

600-8-25

(b) CCP No. 24

(c) MCL 62,015

CONVAIR 990 - REAL CHANGE DRIP STICK CALIBRATION FROM POUNDS TO INCHES

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Change Drip Stick Calibration From Pounds to Inches), based upon MCL 62,015, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change as outlined in Reference (c)
- Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule,

Log No: 630

7 o D. H. Digges

Manager of Contracts

CONVAIR A Division of General Dynamics Corporation (San Diego)

No. 19

Model 30-8

REAL MINUTES

Reference: (a) 8.0. 600-8-25 dated 2 February 1961 (b) CCP No. 24

(c) MCL 62,015

CHANGE DRIP STICK CALIBRATION FROM POUNDS TO INCHES -- SPECIFICATION ADMINISTRATIVE CHARGE

REAL has accepted, as evidenced by Reference (a), Convair's proposal, Reference (b), based upon MCL 62,015, Reference (c):

Description of CHANGE:

Page 41, Paragraph 3.12.9.9.3 DRIP STICKS:

In the second line, change "pounds" to inches."

ACTION: All concerned are authorized to proceed with the above. Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department within four weeks AFET VED of Sales Order date.

ject Engineer

AJB:JNC/ms

SALES ORDER

Sold to: REAL S/A - Transportes Aereos

and Empresa de Transportes

Brazil S/A

27 January 1961

SO No: 600-8-24

Reference: (a) REAL Letter, FR 16/61,

dated 24 January 1961

(b) CCP No. 25 (c) MCL 62,016 WO No: 31,000 Series

CONVAIR 990 - REAL REVISION TO LAVATORY LIGHTING LANGUAGE AND CORRECTION TO X-BAND ANTENNA PART NUMBER

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Revision to Lavatory Lighting Language and Correction to X-Band Antenna Part Number), based upon MCL 62,016, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change as cutlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

HBD;md
Log No: 541

D. H. Digges Manager of Contracts A Division of General Dynamics Corporation
(San Diego)
7 February 1961

No. 18

Model 30-6

REAL S/A MINUTES

Reference: (a) 8.0. 600-8-24 dated 27 January 1961

(b) CCP No. 25 (c) MCL 62,016

REVISION TO LAVATORY LIGHTING LANGUAGE and CORRECTION TO X-BAND ANTENNA P/N

Real has accepted, as evidenced by Reference (a), Convair's proposal, Reference (b) - Specification Administrative Change, based upon MCL 62,016, Reference (c).

The change is as follows:

Page 68, Paragraph 3.16.8.3.5 LAVATORY LIGHTING:

Revise second sentence as follows:

From: "Valance lights shall be controlled by an "OFF-ON" switch at the cabin attendant's panels."

To: "All lawatory lights, including valance lights, shall be controlled by an "OFF-ON" switch at the cabin attendants' penels."

Add the following sentence to the end of the paragraph:

"The control switch for mirror lighting shall be provided with a sheet metal slide, on each upper door jamb extrusion, to hold this switch in the 'ON' position when the door is open."

Page A-11, APPENDIX I-C, ELECTRONICS EQUIPMENT:

Revise the below item under "WEATHER RADAR" as follows:

From: "I Antenna Assy (30-inch dish) Bendix ANT-1D"

To: "1 Antenna Assembly (30-inch

dish, X-Band) Bendix ANT-1E-B"

ACTION: All concerned are authorized to proceed with the above. Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department within four weeks of Sales Order date.

A. J. Savard Project Engineer

AJB:JMC/mjs

ACCOUNTING SALES ORDER

Sold to: REAL S/A - Trensportes Aerecs

and Empress de Transportes Aerovias

Brazil S/A Seo Paulo, Brazil Date: 13 January 1961

80 No: 600-8-23

WO No: 31,000 Series

CONVAIR 990 - HEAL

CHARGE ORDER No. 5

(1) Attached is a copy of Change Order No. 5 signed by REAL S/A - Transportes Asrevies and Empress de Transportes Asrevies Brazil S/A, which emends Detail Specification Report No. ZD-30-008, dated 2 May 1960, to incorporate the Specification Change Nos. 2, 3, 4, 5, 6, 7, 8, 9, 10, and 11, set out in Paragraph VI of said Change Order.

HID: be

Log Hos 397

ee: (all with attachment)

Arthur Anderson & Co.

Re Fe Ashe

G. H. Blain

G. T. Boves

R. Burke (w/exac. copy)

D. C. Burrous

D. H. Diggas

Jo Do Biland

Re D. Evans

Og Wa Hurper (w/attach -2)

A. L. Handricks

R. R. Hoover

701 D. H. Diggs

Hamagar of Contracts

W. J. Jason

E. A. Kayes

V. S. Mathews

C. L. Mandor (w/attachs-2)

A. G. Rothlisberg

C. C. Sawyer

To Jo Sulliven

R. K. Waldo

R. B. Watts

J. G. Zevely

F. S. Charbers

Change Order No. 5

Sales Order File

CHANGE CRIER NO. 5

pursuant to

Article 5 of Purchase Agreement dated 12 August 1957 by and between

REAL S/A - Transportes Aereos end Empresa de Transportes Aerovias Brazil S/A end General Dynamics Corporation (Convair Division)

- I. The Datail Specification Report ZD-30-008 is hereby emended to reflect certain changes all as more particularly set forth in Specification Change Nos. 2, 3, 4, 5, 6, 7, 8, 9, 10, and 11, Commercial Change Proposal Summary No. 1 and Specification Revision Pages dated 15 November 1960 attached hereto and made a part hereof.
- II. Airplanes Affected:

Undelivered - 3

III. Effect on weight and balance:

As reflected in the Specification Changes and Commercial Change Proposal Summary No. 1 attached.

IV. Effect on performance:

As reflected in the Specification Changes and Commercial Change Proposal Summery No. 1 attached.

V. Effect on delivery:

None

- VI. This Change Order results in the following charges and/or credits:
 - A. Change No. 2 Modification of Engine Fan Anti-Icing System (Page 111)

No Charges or Credits

B. Change No. 3 - Relocation of Fan Tachometer, Pressure Ratio and Exhaust Temperature Indicators; and Addition of Overspeed Warning Lights (Pages 34, 47a, 48, and A-6)

No Charges or Cradits

C. Change No. 4 - Revision to Oxygen System Illustration (Page 104a)

No Charges or Credits

D. Change No. 5 - Revision to P/N of Bendix P. A. Amplifier (Page A-11)

Ho Charges or Credits

pursuant to
Article 5 of Purchase Agreement dated 12 August 1957
by and between

REAL S/A - Transportes Aereos and Empresa de Transportes Aerovias Brazil S/A and General Dynamics Corporation (Convair Division)

E. Change No. 6 - Revision to Inter-

Title:		Director					
By:_/	s/ I	Sduardo M. Alvarenga					
	PROPERTY OF THE	TRANSPORTES AKROVIAS BRAZIL S/A					
2000		Director					
	100	duardo M. Alvarenga					
this	27	day of December 1960. TRANSPORTES AEREOS					
			Title: Chief of Contract Administration				
			By: /a/ F. S. Chambers				
			GENERAL DYNAMICS CORPORATION				
VIIIe	Except as herein modified all provisions of the Purchase Agresment and the Detail Specification shall remain in effect.						
VII.	The attached Commercial Change Proposal Summary No. 1 and revised Specification Pages dated 15 November 1960 are hereby incorporated into and become a part of Datail Specification Naport No. 2D-30-008 dated 2 May 1960.						
		118-DORG MENGS (1983 30)	No Charges or Credits				
	J.	Change No. 11 - Cargo Compartment Tie-Down Rings (Page 96)					
	7.0	Tires, Change to Goodyear (Page A					
	<u>.</u> 1	Change No. 10 - Main and Nose Ges	Ho Charges or Credits				
		Additional Lateral Control, Installation of (Pages 3a, 12, 17 29, and 55a)	7, 28,				
	H.	Change No. 9 - Powered Rudder and	No Charges or Credits				
	G.	Change No. 8 - Delete Headrest an Footrest on Aft Facing Seat (Page	91)				
	F.	Change No. 7 - Revision to C. G. Limits Graph (Page 6a)	No Champa an Candida				
		100 March 100 Ma	No Charges or Credits				
		changeable and Replaceable Parts (Page 117)					

Convair - San Diego

SALES ORDER

Sold to:

REAL S/A - Transportes Agraca

and Empresa de Transportes

Brazil 8/A

Date: 12 January 1961.

SO No: 600-8-22

Reference:

(a) REAL Letter, FR 10/61, dated 11 January 1961

(b) CCP No. 22 (c) MCL 62,092

(d) Convair initiated

WO No: 31,000 Series

CONVAIR 990 - REAL HORIZONTAL STABILIZER MECHANICAL MODION INDICATOR SYSTEM, INSTALLATION (F

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Horizontal Stabilizer Machanical Motion Indicator System, Installation of, based upon MCL 62,092, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) Incorporation of this change results in an increase of 6 pounds per aircraft. There is no effect on aircraft performance or delivery schedule.

AS HBD: hs

Log No: 285

7- D. H. Digges Nanagar of Contracts

CONVAIR A Division of General Dynamics Corporation (San Diago) 19 January 1961 REAL MINUTES Reference: (a) S. O. 600-8-22 dated 12 January 1961 (b) CCP No. 22 (c) NCL 62,092

No. 16

Model 30-8

EDRIZONTAL STABULIZER MECHANICAL MOTION INDICATOR SYSTEM, INSTALLATION OF

REAL has accepted, as evidenced by Reference (a), our proposal, Reference (b), based upon MIL 62,092, Reference (c).

Incorporation of this change results in an increase of 6 pounds per aircraft. There is no effect on aircraft perforance or deliveryschedule.

Description of Change:

Page 29, Paragraph 3.10.1.5 STABILIZER SYSTEM:

Add the following to the end of the passegraph:

"A borisontal stabilizer machenical motion indicator system with andible warning in the pilot compartment, shall be installed to indicate stabilizer trim in-trensit due to component failure in the stabilizer trim system."

ACTION: Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department within four weeks of Sales Order date.

Roginser

AJB/JEC/4Jb

SALES ORDER

Sold to:

REAL S/A - Transportes Acreos

and Empresa de Transportes

Date:

12 January 1961

Brasil, S/A

80 Ho: 600-8-21

Reference: (a) REAL Letter, NAM-524/60, dated 30 December 1960

(b) CCP No. 21 (c) MCL 62,091

(d) C awair initiated

HO Eo: 31,000 Saries

CCHVAIR 990 - REAL PILOT AND COPILOT SEATS, CHANGE TO

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Pilot and Copilot Seats, Change to, based upon N°L 62,091, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change outlined in Refer (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on sirereft performance or delivery schedule.

D. H. Digges Managar of Contracts

CONVAIR A Division of General Dynamics Corporation (San Diego)

24 January 1961

No. 17

REAL MINUTES

Model 30-8

- (a) S. O. 600-8-21 dated 12 January 1961
- (b) CCP No. 21 (c) MCL 62,091

PILOT AND COPILOT SEATS, CHANGE TO

REAL has accepted, as evidenced by Reference (a), our proposal, Reference (b) based upon MCL 62,091, Reference (c).

Description of Change:

Page A-14, APPENDIX I-C, FURNISHINGS:

Revise the below items under "Description" as follows:

From:	"1	Seat, Pilot (Including Fabric, Belt and Harness)	Convair Dug. 30-98504-1 Convair Dug. 30-98504-2"	
	1	Seat, Copilot (Including Fabric, Belt and Harness)		
To:	"1	Seat, Pilot (Including Pabric, Belt and Harness)	Weber	801135-607/ 803807
	1	Seat, Copilot (Including Fabric, Belt and Harness)	Weber	801136-607/

ACTION: All concerned are authorised to proceed with the above. Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department within four weeks of Bales Order date.

AJB/JMC/db

CUNVAIR - AN DIEGO

Reference:

SALES OF DER

Jold to: REAL S/A - Transportes Aereos

and Empresa de Transportes

Brazil S/A

(a) REAL Letter, FR 76/61.

dated 3 April 1961

(b) CCP No. 30

(a) MCL 62,020

Date:

5 April 1961

50 No s 600-8-20

WO No: 31,000 Saries RECL

10010

PROJEC SPEC. GROUP

CONVAIR 990 - REAL DELETION OF AFT ENGINE FAN ANTI-ICING SYSTEM

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Deletion of Aft Engine Fan Anti-leing System), based upon MCL 62,020, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no affect on aircraft performance or delivery schedule.

[17)

Lor; ilo: 3440

-7 Illander

Mana jur of Com ercial Contracts

REAL MINUTES

No. 26

17 April 1961

Model 30-5 26-38

Reference (a) Sales Order 600-8-20 dated 5 April 1961 (b) MCL 62,020 (c) CCP #30

CONVAIR 990 - REAL DELETION OF AFT ENGINE FAN ANTI-ICING SYSTEM STREET FREADURE AD TREETS AND THE CHECKERS

REAL is accepted, as evidenced by Reference (a), Convair's proposal, Reference (b), based upon MCL 62,020, Reference (b).

Description of Change:

Page 111, Paragraph 3.20.2.1 ANTI-ICIES OF NONTRANSPARENT AREAS:

Delete the next to the last sentence in the paragraph which reads as follows:

"An "OH-OFF" switch shall be provided to isolate each aft fan anti-icing system from the engine bleed air during takeoff, climb and cruise conditions."

ACTION: Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.

> J. Savard aject Engineer

AJH: JMC: cas

SALES CRIER

Bold to:

REAL 8/A - Transportes Aereos

Date: 12 December 1960

and Empresa de Transportes Brasil 8/A

80 No: 600-8-18

Reference: (a) REAL Latter, MAN-483/60, dated 1 December 1960

WO No: 31,000 Series

OCP No. 17 (c) MCL 62,011

(d) Convair initiated

COMVAIR 990 - REAL REVISION TO EXPERIAL SERVICE POWER SYSTEM LANGUAGE

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Revision to External Service Power System Language), based upon MCL 62,011, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the chings outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as some as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

7 D. H. Digges Manager of Contracts

CONVAIR A Division of General Dynamics Corporation (San Diego)

19 December 1960

No. 15

REAL MUSICIES

Model 30-8

Reference:

- (a) S. O. No. 600-8-18 dated 12 December 1960 (b) CCP No. 17
- (c) MCL 62,011

SPECIFICATION ADMINISTRATIVE CHANGE

REVISION TO EXTERNAL SERVICE POWER SYSTEM LANGUAGE

REAL has ascepted, as evidenced by Reference (a), our proposal, Reference (b) based upon MCL 62,011, Reference (c).

Description of Change:

Page 70, Paragraph 3.16.8.3.10 - EXTERNAL SERVICE FORER SYSTEM:

Revise the first sentence to read as follows:

"It shall be possible to energize certain interior lighting, oil quantity indicators, refusling controls and indicators from the external power source without the necessity of energiaing the power distribution system in the aircraft"s

ACTION: All concerned are sutherized to preceed with the above. Engineering Specification Section vill forward mecessary revised Specification pages to the Contracts Department within four weeks of Sales Order date.

AJS/JMC/djb

SALES CRIMER

Sold to:

REAL 8/A - Transportes Aereos

and Represa de Transportes

Brazil 8/A

Date: 15 November 1960

50 No: 600-8-17

Reference:

(a) REAL Letter, MAN-443/60, dated 3 November 1960

(b) CCP No. 13 (c) MCL 62,009

(d) Convair initiated

WO No: 31,000 Series

CONVAIR 990 - REAL

ALTERNATE CONTROL CABIR MATERIAL

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Alternate Control Cable Material), based upon NCL 62,009, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification page to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is so effect on aircraft performance or delivery schedule.

HBD: bs

10g NO: 3215

7- D. H. Digges Manager of Contracts

CONVAIR A Division of General Dynamics Corporation (San Deigo)

23 November 1960

No. 13

REAL MINUTES

Model 20-8

- Reference: (a) Sales Order 600-8-17
 - (b) CCP. No. 13 MCL 62,009

ALTERNATE CONTROL CABLE MATERIAL

SPECIFICATION ADMINISTRATIVE CHANGE

REAL Airlines has accepted, as evidenced by Reference (a), our proposal Reference (b), based upon MCL No. 62,009 Reference (c).

DESCRIPTION OF CHANGE:

Page 28. Paragraph 3.10.1.1.1 CABLES, FITTINGS AND CONNECTIONS

Revise the first sentence as follows:

"Preformed tinned or corrosion resistant cable shall be used for FROM: all flexible cable centrols."

"Preformed galvanised, tinned or corrosion resistant cable shall TO: be used for all flexible cable controls."

ACTION: All concerned are authorized to proceed with the above. Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department within four weeks of Sales Order date,

> J. Savard Project Engineer

AJS/JMC/jcp

BALES OFDER

Sold tos

REAL S/A -- Transportes Asreos

and Empresa de Transportes

Brezil S/A

Date: 15 November 196

80 No: 600-8-16

Bazarenca:

(a) REAL Letter MAN-445/60 dated 7 Hovember 1960

(b) CCP No. 12 (c) MCL 62,008

(d) Convair initiated

WO No: 31,000 Series

CONVAIR 600 - HEAL

STEUCTURAL DESIGN SPEED LINET FOR FLAP AND LEADING EDGE DEVICE or Alan from Society and Andic Base I or Alvert

- (1) HEAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Structural Design Speed Limit for Flag and Leading Edge Davice Operation with Single Hydraulic System Operating), based upon MCL 62,008, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect of aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

Log No: 3216

70 Do Ho Diggs Managar of Contracts

No. 14

23 November 1960

REAL MINUTES

Model 30-8

- Reference: (a) Sales Order 600-8-16
 - (b) CCP No. 12

(c) MCL 62,008

SPECIFICATION ADMINISTRATIVE CHANGE

STRUCTURAL DESIGN SPEED LIMIT FOR FLAP AND LEADING EDGE DEVICE OPERATION WITH SINGLE HYDRAULIC SYSTEM OPERATION

REAL Airlines has accepted as evidenced in Reference (a) our proposal, Reference (b), based upon MCL No. 62,008, Reference (c).

DESCRIPTION OF CHANGE

Page 30, Paragraph 3.10.2.1 LIFT AND DRAG INCREASING DEVICE SYSTEMS:

Revise the fifth sentence as follows:

"Full trailing edge flap deflection and leading edge device From: extension shall be obtainable from either hydraulic system."

"Full extension and retraction of flaps and leading edge To: devices shall be obtainable at structural design speeds with both hydraulic systems operating. With either hydraulic system operating singly, flap extension and retraction shall be possible at the following IAS, including leading edge device operation

20° at 230 knots 30° at 210 knots 40° at 190 knots at 170 knots

ACTION: All concerned are authorized to proceed with the above. Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department within four weak of Sales Order 1Date.

> A. J. Savard Project Engineer

AJB/JMC/Jep

SAIES ORDER

Sold to: HEAL S/A - Transportes Aereos and Empresa de Transportes Brasil S/A

Date: 7 Hovember 1960

80 No: 600-8-15

Reference: (a) Convair Letter 11-2-3859 dated 15 July 1960

WO Mos 31,000 Series

(b) Amendment No. 5 to Furchase Agreement by and between General Dynamics Corporation (Convair Division) and REAL S/A - Transportes Aereos and Empress de Transportes Aereoias Brazil S/A

CONVAIR 990 - HEAL

AMERICANT NO. 5

- (1) Under the Purchase Agressent, Article 11 on Page 11F, Section (e)(2), Subsection (ea), Convair agreed to supply REAL the following:
 - (1) 2 blueprint copies of each drawing from which the first aircraft is manufactured and revisions and replacements for such drawings as required due to changes in subsequent aircraft during manufacture.
 - Reference (a) letter covered the transmittal of Amendment No. 5 to the Convair/REAL Purchase Agreement which proposed the deletion of the above mentioned drawings while substituting in lieu thereof one (1) set of microfilm integrated drawings consisting of all components, main assemblies and installations. REAL has agreed to this Amendment to the Purchase Agreement as evidenced by the execution of Reference (b).
- (2) The microfilm integrated drawings are to be supplied concarrently with initial spaces procurement documents, as set forth in Article 4(a) of the Purchase Apreciant with revisions thereto until delivery of the last aircraft.
- (3) All departments concerned are authorized to proceed accordingly.

PROJECT SPEC. GROUP

Had: ha

Log No: 3110

700 D. H. Digges Hanson of Contracts

SALES ORDER

Sold to: REAL 8/A - Transportes Aereos

sud Empresa de Trensportes

Binsil 3/A

Date: 2 November 1960

WO No: 31,000 Series

SO No: 600-8-14

Reference: (a) Sales Order 600-8-1

(b) Revised Amendment No. 4 to REAL Purchase Agreement dated 23

June 1960.

(c) REAL Istter, MAN-419/60, dated 13 October 1960.

OFFICE FACILITIES FOR REAL

- (1) A representative of REAL has been assigned office space in Room L, Building 19, Customer Representatives Office. His telephone extension will be 1269.
- (2) Said representative is authorized to place telephone calls, send telegrams and to send mail through the existing facilities. The charges for telephone calls and telegrams are to be accumulated by Office Services on a monthly basis, if possible, and submitted to the Accounting Department.
- (3) Accounting Department is authorized to bill REAL for these charges. Such billings are to be submitted to Commercial Contracts, Room 100, Building 19, for transmittel to the customer.

The Bobins

Log No. 3079.

70 D. H. Diggss Managar of Contracts

BALKS ORDER

Sold to: REAL S/A - Transportes Aereos

and Empresa de Transportes

Brazil S/A

Date: 19 October 1960

30 No: 600-8-13

Reference: (a) REAL Letter MAN-415/60 dated 11 October 1960

(b) CCP No. 10 (c) MCL 62,087 WO No: 31,000 Series

CONVAIR 600 - REAL

MAIN AND NOSE GEAR TIRES, CHANGE TO GOODYBAR

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Main and Nose Gear Tires, Change to Goodyear, based upon MCL 62,087, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) Incorporation of this change results in an increase of 91 pounds per aircraft. There is no effect on aircraft performance or delivery schedule.

HED: be

Log Bo: 2988

707 D. H. Digges Manager of Contracts

C O N V A I R A Division of General Dynamics Corporation (San Diego)

No. 11

2 November 1960

Model 30-8

REAL MINUTES

Reference:

(a) S. O. 600-8-13 dated 19 October 1960

(b) GCP No. 10 (c) MCL 62,087

MAIN AND NOSE CEAR TIRES, CHANGE TO GOODYEAR

REAL has accepted, as evidenced by Reference (a), our proposal, Reference (b) based upon MCL 62,087, Reference (c).

Incorporation of this change results in an increase of 91 pounds per aircraft. There is no effect on aircraft performance or delivery schedule.

Description of Change:

Page A-13, APPENDIX I-C, LANDING GEAR EQUIPMENT:

Revise the below items under "Description" as follows:

From: "8 "Tires, Main Wheel (41 x 15-18) Type VIII (Tread depth .38, 200 mi/hr) 22 PR

2 PTires, Nose Wheel (29 x 7.7)
Type VII 16
(Treed depth .32, 200 ml/hr)
FR"

To: "8 Tires, Main Wheel (41 x 15-18) Goodyear Type VIII (Tread depth, .38, 200 md/hr) 22FR

2 Tires, Nose Wheel (29 x 7.7) Goodyear Type VII (Tread depth .32, 200 mi/hr) PR16"

Delete the note on bottom of Page A-13 which reads:

"Manufacturer's weight empty guarantee includes tire vendor's weight selected by Convair."

ACTION: All concerned are authorised to proceed with the above. Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department within four weeks of Sales Order date.

A. J. Savard Project Engineer

AJB/JMC/dr

SALES ORDER

Sold to:

REAL S/A - Transportes Aereos

and Empresa de Transportes

Brazil S/A

18 October 1960 Date:

BO No: 600-8-12

Reference: (a) REAL Letter MAN-414/60 dated 11 October 1960

(b) CCP No. 9 (c) MCL 62.086 HO No: 31,000 Series

CONVAIR 600 - HEAL

POWERED RUDDER AND ADDITIONAL LATERAL CONTROL, INSTALLATION OF

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Powered Rudder and Additional Lateral Control, Installation of, based upon MCL 62,086, Reference (c). Accordingly, all departments concerned are lirected to proceed with incorporation of the change outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) Incorporation of this change results in an increase of 298 pounds per aircraft. There is no effect on delivery schedule.

Log No. 2983

70 D. H. Hayes

Managar of Contracts

C O M V A I R A Division of General Dynamics Corporation (Ean Diegr.)

26 October 1960

No. 10 Model 30-8

REAL MINUTES

Reference: (a) 6. 0. 600-8-12 dated 18 October 1960

(b) CCP No. 9 (c) MCL 62,086

POWERED RUDGER AND ADDITIONAL LATERAL COSTROL, INSTALLATION OF

REAL has escepted as evidenced by Reference (a), our proposal, Reference (b), based upon MIL 62,086, Reference (c).

Incorporation of this change results in an increase of 298 pounds per aircraft. There is no effect on delivery schedule.

This change is to provide a full powered rudder in lieu of a power boost rudder; and to provide additional lateral control by increase of outboard spoiler span for REAL and is identical to the change as accomplished on the American and Swissair versions.

For complete description, see CCP No. 9.

ACTION

All concerned are authorized to proceed with the above. Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department within four weeks of Sales Order date.

Project Engineer

AJS/JMC:dr

Sold to: HEAL S/A - Transportes Aereos and Empresa de Transportes

Brazil 8/A

Reference: (a) REAL Letter MAN-360-60 dated 15 September 1960

(b) CCP No. 3 (c) MCL 62,085

SALES ORDER

Date: 29 September 1960

80 No: 600-8-11

WO No: 31,000 Series

CONVAIR 600 - REAL

HELOCATION OF FAN TACHOMETER, PRESSURE RATIO AND EXHAUST TEMPERATURE INDICATORS; AND ADDITION OF OVERSPERD WARNING LIGHTS

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Relocation of Fan Tachometer, Pressure Ratio and Exhaust Temperature Indicators; and addition of Overspeed Warning Lights, based upon MCL 62,085, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) Incorporation of this change results in an increase of 14 pounds per aircraft. There is no effect on aircraft performance or delivery schedule.

HBD: hs

Log No. 2756

70 D. H. Digges

Manager of Contracts

C O N V A I R A Division of General Dynamics Corporation (San Diego)

3 October 1960

No. 9

Model 30-8

REAL MINUTES

Reference: (a) 8. 0. 600-8-11 dated 29 September 1960

(b) CCP No. 3 (c)NCL 62,085

RELOCATION OF PAN TACHONETER, FRESEURE RATIO AND EXHAUST TEMPERATURE INDICATORS; AND ADDITION OF OVERSPEED WARNING LIGHTS

REAL has accepted, as evidenced by Reference (a), our proposal, Reference (b), based upon MIL 62,085, Reference (c).

Incorporation of this change results in an increase of 14 pounds per aircraft. There is no effect on aircraft performance or delivery schedule.

Description of Change:

Page 34, Paragraph 3.12.4 3 TACHOMETER CHHERATORS:

Add the following to the end of the paragraph:

"A warning light shall be installed on the pilots' center instrument panel for each fan tachomater to indicate overspeeding."

Page 47a, PILOT'S AND COPILOT'S INSTRUMENT PANEL:

Above illustration will be revised to show pressure ratio indicators in the position now occupied by the exhaust temperature indicators, and the enhaust temperature indicators in the position now occupied by the fan tachometer indicators.

Page 48, Paragraph 3.14.1.3 CHITTER PANEL INSTRUMENTS:

Delete the below item from the instrument list:

"*Four engine fan tachometer indicators"

Add the following item to the instrument list:

""Four pressure ratio indicators"

Page 48, Paragraph 3.14.1.4 FLIGHT ENGINEERS INSTRUMENTS:

Dalete the below item from the instrument list:

"Four thrust indicators"

Add the following item to the instrument list:

"Four engine fan tachomster indicators"

Page A-6, APPENDIX I-C, INSTRUMENTS AND RELATED EQUIPMENT:

Revise the below items under "ENGINE INSTRUMENTS - GENERAL" as follows:

From: "4 Indicator, Thrust"

To: "all Indicator, Pressure Ratio U. S. Gauge SRL-0156"

Delete the asterisk before "4 Indicator, Tachometer (Fan)"

Add the following item to the instrument list:

"4 Transmitter, Pressure Ratio System Minneapolis-Honeywell IGL4C7"

ACTION: All concerned are authorized to proceed with the above. Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department within four weeks of Sales Order date.

A. J. Saverd Project Engineer

AJB:JMC:dr

Sold to: REAL S/A - Transportes Aereos

and Empresa de Transportes

Brazil 8/A

Date: 29 September 1960

SO No: 600-8-10

SALES ORDER

Reference: (a) REAL Letter MAN-374/60 dated 22 September 1960

(b) CCP No. 11 (c) MCL 62,007 WO No: 31,000 Series

CONVAIR 600 - REAL

CARGO COMPARTMENT TIE-DOWN RINGS

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Cargo Compartment Tie-Down Rings), based upon MCL 62,007, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) Incorporation of this change results in an increase of 12 lbs. per aircraft. There is no effect on aircraft performance or delivery schedule.

HAD: Tie

Log No: 2755

→ D. H. Digges

Manager of Contracts

CONVAIR A Division of General Dynamics Corp. (San Diego)

3 October 1960

Min. No. 8

Model 30-8

REAL MINUTES

Reference (a) S. O. 600-8-10 dated 29 September 1960 (b) CCP No. 11

(c) MCL 62,007

CARGO COMPARIMENT TIE-DOWN RINGS

REAL has accepted, as evidenced by Reference (a), our proposal, Reference (b) based upon MCL 62,007, Reference (c).

Incorporation of this change results in an increase of 12 lbs. per aircraft. There is no effect on aircraft performance or delivery schedule.

Description of Change:

Page 96, Paragraph 3.19.2.4 LUGGAGE AND CARGO COMPARTMENTS:

Add the following after the first sentence:

"The flooring in both the forward and aft cargo compartments shall be reinforced as required and shall be provided with air each flush-type tie-down rings for securing heavy or uncrated cargo."

ACTION: All conserned are authorized to proceed with the above. Engineering . Specification Section will forward necessary revised Specification pages to the Contracts Department within four weeks of Sales Order date

> A. J. Severd Project Engineer

Aus: Jak: dr

Sold to:

Re erence:

REAL S/A - Transportes Agrees

and Empress de Transportes

Brazil S/A

Sao Paulo, Brazil

(a) RHAL letter MAN-340/60

dated 30 August 1960 (b) CCP No. 8

(c) MCL 62,006

SALUES ORDER

Date: 9 September 1960

SO No: 600-8-9

WO No: 31,000 Series

CONVAIR 600 - HEAL

IKLETE HEADREST AND FOOTEEST ON AFT FACING SEAT

- (1) RRAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Delete Resdrest and Footrest on Aft Facing Sest), based upon MCL 62,006, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change outlined in Reference (c),
- (2) Engineering Specification Section will forward necessary revised.

 Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

HED hs

Log No: 2619

P. D. H. Digges Manager of Contracts

C O N V A I R A Division of General Dynamics Corporation (San Diego)

20 September 1960

No. 7 Model 30-8

REAL MINUTES

Reference: (a) S. O. 600-8-9 dated 9 September 1960

(b) CCP No. 8 (c) MCL 62,006

delete headrest and footrest on aft facing seat

REAL has accepted, as evidenced by Reference (a), our proposal, Reference (b), based upon NCL 62,006, Reference (c).

Description of Change:

Page 91, Paregraph 3.19.1.1.6 PASSENGER SEATS

Revise the 13th sentence as follows:

From: "A standard and a wide ratchet-type footrest shall be provided for each first class double seat.

To: "A standard and a wide ratchet-type footreet shall be provided for each first class double seat, except the forwardmost left hand aft facing double seat."

Revise the 17th sentence as follows:

From: "All first class seats shall be provided with adjustable headrests."

To: "All first class seats shall be provided with adjustable headrests, except the forwardmost left hand aft facing double seat."

ACTION: All concerned are authorized to proceed with the above. Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department within four weeks of Sales Order date.

F. H. Sharp Project Engineer

FES:JMC:dr

Sold to: REAL S/A - Transportes Agrees

and Empresa de Transportes

Brazil S/A

Sao Paulo, Brazil

SAIES ORUGR

Date: 9 September 1960

80 No: 600-8-8

WO No: 31,000 Series

Reference:

(a) REAL Letter MAN-337/60 dated 30 August 1960

(b) CCP No. 5

(c) MUL No. 62,003

CONVAIR 600 - REAL

REVISION TO P/N OF BENDIX P.A. AMPLIFIER

- (1) REAL has accepted by Reference (a), Covair's proposal, Reference (b), Specification Administrative Change (Revision to P/N of Bendix P.A. Amplifier), based upon MCL 62,003, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

HED ha

Log No: 2620

7 D. H. Diggs Manager of Contracts

CONVAIR A Division of General Dynamics Corporation (San Diego)

20 September 1960

No. 6 Model 30-8

REAL MINUTES

Reference: (a) 8. 0. No. 600-8-8 dated 9 September 1960 (b) CCP No. 5

(c) MCL No. 62,003

REVISION TO P/N OF BENDIX P.A. AMPLIFIER

REAL has accepted, as evidenced by Reference (a), our proposal, Reference (b) based upon MCL 62,003, Reference (c).

Description of Change:

Page A-11, APPENDIX I-C, ELECTRONIC EQUIPMENT:

Revise the below item under "P.A. SYSTEM! as follows:

From: "1 Pass. Address Amplifier Bendix AMA-LOA"

"l Pass. Address Amplifier Bendix AMA-10B" To:

All concerned are authorized to proceed with the above. ACTION:

Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department

within four weeks of Sales Order date.

P. H. Sharp Project Engineer

FBB: JMC:dr

Sold to: REAL S/A - Transportes Aereos and

Empresa de Transportes Aerovias

Brasil S/A

Sao Paulo, Brasil

Reference: (a) REAL Letter NAN-318/60 dated 19 August 1960

(b) CCP No. 7

(c) MCL No. 62,005

SALES ORDER

Date: 30 August 1960

so No: 600-8-7

WO No: 31,000 Series

CONVAIR 600 - REAL

REVISION TO C. G. LIMITS GRAPH

- (1) REAL has accepted by Reference (a), Convair's proposal, Reference (b), Specification Administrative Change (Revision to C. G. Limits Graph), based upon MCL 62,005, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

HBD: hs

Log No: 2530

For Do H. Digges

Manager of Contracts

CONVAIR A Division of General Dynamics Corporation (San Diego)

No. 5

9 September 1960

Mod. 30-8

REAL MINUTES

Reference: (a) S. O. 600-8-7 dated 30 August 1960

(b) CCP No. 7 (c) MCL No. 62,005

REVISION TO C.G. LIMITS GRAPH

REAL has accepted as evidenced by Reference (a), our proposal, Reference (b) based upon MCL 62,005, Reference (c).

Description of change:

Page 6a - C. G. DESIGN LIMITS:

Replace above illustration in specification with copy of Page 6a - C. G. LIMITS which adds new aft takeoff C. G. limit.

ACTION: All concerned are authorized to proceed with the above. Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department within four weeks of Sales Order date.

AJS:JMC:dr

6-122

Sold to:

REAL S/A - Transportes Agrees and

Date:

18 August 1960

Empresa de Transportes Aerovias Brasil S/A Sao Paulo, Brasil

80 No:

600-8-6

Reference:

(a) CCP No. 6 (b) MCL No. 62,004

WO No: 31,000 Series

CONVAIR 600 - HEAL

REVISION TO INVERCHANGEABLE AND REPLACEABLE PARTS

- (1) HEAL has accepted Convair's proposal, Reference (a), Specification Administrative Change, Revision to Interchangeable and Replaceable Parts, based upon MCL 62,004, Reference (b). Accordingly, all departments concerned are directed to proceed with incorporation of the change outlined in Reference (b).
- (2) Engineering Specification Section will forward necessary revised specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on sircraft weight empty. There is no effect on aircraft performance or delivery schedule.

Log No: 237?

Per D. H. Diggas Manager of Contracts

CONVAIR A Division of General Dynamics Corporation (San Diego)

REAL MINUTES

No. 4 Mod. 30-8

9 September 1960

Reference: (a) S. O. 600-8-6 dated 18 August 1960 (b) CCP No. 6

(c) MCL No. 62,004

REVISION TO INTERCHANGEABLE AND REPLACEABLE PARTS

REAL has accepted, as evidenced by Reference (a), our proposal, Reference (b) based upon MCL No. 62,004, Reference (c)

Description of Change:

Page 117, Paragraph 3.23.2 EQUIPMENT INTERCHANGEABILITY:

Revise the following item under "a. Interchangeable Parts (Cont)" as follows:

"Crew and Fassenger Seat and Back Cushions and Arm Rest From: Covers"

"Crew Seat Bottom Cushions Passenger Seat Bottom Cushions and Arm Rest Caps"

Revise the below item under "b. Replaceable Parts" as follows: From: "All Doors and Covers not specifically listed as interchargeable"

To: "All Access Doors or Covers not specifically listed as interchangeable"

Delete the below item from "B. Replaceable Parts":

"Access Panels"

ACTION: All concerned are authorized to proceed with the above. Engineering Specification Section will forward necessary revised Specification page to the Contracts Department within four weeks of Sales Order date.

AJS:JC:dr

A. J. Savard

SALES ORDER

Sold to:

REAL S/A - Transportes Acress and

Date:

10 August 1960

Empresa de Transportes Aerovias Brasil S/A

Sao Paulo, Brasil

80 No: 600-8-4

Reference:

(a) CCP No. 2

(b) MCL No. 62,001

WO No: 31,000 Series

CONVAIR 600 - REAL

MODIFICATION OF ENGINE FAN ANTI-ICING SYSTEM

- (1) REAL has accepted Convair's proposal, Reference (a), Specification Administrative Change, Modification of Engine Fan Anti-Teing System, based upon MCL 62,001, Reference (b). Accordingly, all departments concerned are directed to proceed with incorporation of the change outlined in Reference (b).
- (2) Engineering Specification Section will forward necessary revised specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

Log No: 2313

D. H. Digges anager of Contracts

C O H Y A I R
A Division of General Dynamics Corporation
(San Diego)

No. 3 Nodel 30-8

REAL MINUTES

Reference:

(a) 8.0. 600-8-4 dated 10 August 1960

(b) CCP No. 2

(c) MCL No. 62,001

HODIFICATION OF ENGINE FAN ANTI-ICIEG STETEM

REAL has accepted Convair's proposel, Reference (a), Specification Administrative Change, Modification of Engine Fan Anti-Icing System, based upon MCL 62,001, Reference (b).

Description of Change:

Page 111, Paragraph 3.20.2.1 - AMTI-ICIEG OF ECHTRARSPARENT AREAS:

Add the following after the next to the last sentence in the paragraph:

"An OH-OFF" switch shall be provided to isolate each oft fan entiicing system from the engine bleed air during takecff, climb end cruise conditions".

ACTION: All concerned are authorized to proceed with the above. Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department within four weeks of Sales Order date.

> A. J. Savard Project Engineer

AJB: JMC: Rd

SALES ORDER

Sold to:

REAL S/A - Transportes Aereos and

Empresa de Transportes Aerovias Brasil S/A

Sao Paulo, Brasil

Date:

10 August 1960

(a) Letter, Eduardo Alvarenga to H.B.

SO No: 600-8-3

Reference: Duckworth, dated 4 August 1960.

(b) CCP No. 4

(c) MCL No. 62,002

WO No: 31,000 Series

CONVAIR 600 - REAL

REVISION TO OXYGEN SYSTEM ILLUSTRATION

- (1) REAL has accepted by Reference (a) Convair's proposal, Reference (b), Specification Administrative Change, Revision to Drygen System Illustration based upon MCL 62,002, Reference (c). Accordingly, all departments concerned are directed to proceed with incorporation of the change as outlined in Reference (c).
- (2) Engineering Specification Section will forward necessary revised specification pages to the Contracts Department as soon as practicable.
- (3) This change has no effect on aircraft weight empty. There is no effect on aircraft performance or delivery schedule.

Log Nos 2342

Handwall h D. H. Diggas

Manager of Contracts

CONVAIR A Division of General Dynamics Corporation (San Diego)

REAL MINUTES

No. 2 Model 30-8

9 September 1960

Reference: (a) S. O. 600-8-3 dated 10 August 1960 (b) CCP No. 4

(c) MCL No. 62,002

REVISION TO OXYGEN SYSTEM ILLUSTRATION

REAL has accepted, as evidenced by Reference (a), our proposal, Reference (b) based upon MCL 62,002, Reference (c).

Description of Change:

Page 104e, GASEOUS OXYGEN SYSTEM:

Replace above illustration in the specification with revised copy -GASEOUS OXYGEN SYSTEM, Page 104a, which shows oxygen facilities for four crew members in lieu of five.

ACTION: All concerned are authorized to proceed with the above. Engineering Specification Section will forward necessary revised Specification pages to the Contracts Department within four weeks of Sales Order date.

JTR: JMC:dr

WIBraun 6-12

CONVAIR - San Diego

ACCOUNTING SALES ORDER

Sold to: REAL S/A - Transportes Aereos and

Empresa de Transportes Asrovias Brasil S/A

Sao Paulo, Brasil

Date: 23 May 1960

SC No: 600-8-2

WO No: 31,000 Series

COMVAIR 600 - REAL

CHANGE ORDER NO. A

(1) Attached is a copy of Change Order No. 4 signed by REAL S/A - ' Transportes Aereos and Empresa de Transportes Aerovias Brasil S/A, which smends Detail Specification Report No. 2D-30-010 (Revision 4) deted 1 August 1958, to incorporate the various changes set out in Paragraph VI of said Change Order. Change Order No. 4 cancels Change Orders Nos. 1 through 3 to Detail Specification Report No. ZD-22-001 dated 1 June 1956, rovised 22 July 1957. Detail Specification Report No. 20-22-00Das amended by changes described in Change Order No. 4 is pereby redesignated "Detail Specification Report No. ZD-30-008 dated 2 May 1960".

> The Hould be ZD . 30-010 (Par 4) do 1 august 1958

HBD sha

Log No. 1592

co: E. Burke (w/exec. copy)
600 Project Office (w/attach-2)
Commercial Sales (w/attach) H. A. Kayes (w/attach) Contracts Staff Section (w/attach) J. Doig (w/attach) E. E. Johnson (w/attach)

J. J. Jodka (w/attach) W. F. Brown (w/attach-2) D. H. Digges

Manager of Contracts

H. R. Kennedy (w/attach) Commercial Contracts Arthur Anderson & Co. (w/attach) Change Order No. 4 A. J. Braidio

G. T. Boves (w/attach) T. J. Sullivan (w/attech) RECEIVED

D. H. Digges (w/attach) Sales Order File

MAY 31

PROJEC SPEC. GROUF

CHANGE ORDER NO. 4

pursuant to

Article 5 of Purchase Agreement dated 12 August 1957 by and between

REAL S/A - Transportes Aereos and Empresa de Transportes Aerovias Brasil S/A and General Dynamics Corporation (Convair Division)

to the aforesaid Agreement water and reference of dated a new 1960 cification Party 20-30-008 dated and 20 I. The Detail Specification Report No. 2D-30-010 (Revision 4) dated 1 August 1958 is hereby smended to incorporate the various changes set out in Paragraph VI bereof This Change Order No. 4 cancels Change Orders Nose 1 through 3 to Detail Specification Report No. ZD-22-001 dated 1 June 1956, revised 22 July 1957. This Change Order is issued to establish the changes to the Datail Specification agreed upon between the parties as of the date heroof in accordance with provisions of Article 5 of the Purchase Agreement entitled "Changes."

II. Airplanes Affected:

Undelivered - 3

Effect on weight and balance:

is reflected in the Detail Specification Report No. ZD-30-008 dated 2 May 1960.

IV. Effect on Performance:

None

Vo Effect on Delivery:

None

- This Change Order results in the following changes with the applicable charges as noted:
 - A. Installation of supplemental oxygen masks for radio operator/ navigation station

Total Non-recurring Charges		7,3 98.00
Recurring Charge per Aircraft		728.00
Total Charges for 3 Aircraft	\$	9,582,00

CHANGE ORDER NO. 4

gursuant to

Article 5 of Purchase Agreement dated 12 August 1957 by and between

REAL S/A - Transportes Aereos and Empresa de Transportes Aerovias Brasil S/A and General Dynamics Corporation (Convair Division)

and

Amendment No. 4

to the aforesaid Agreement

Bo	Installation of radio/navigation station.		
	Total Non-recurring Charges Recurring Charge per Aircraft	\$	28,563.00 10,437.00
	Total Charges for 3 Aircraft	\$	59,874.00
Co	Installation of cabin rate-of-climb indicate	œ.	
N	Total Non-recurring Charges Recurring Charge per Aircraft	\$	819.00 214.00
	Total Charges for 3 Aircraft	\$	1,461.00
✓ Dŏ	Installation of oil low pressure warning swi	tohes	q
	Total Non-recurring Charges Recurring Charge per Aircraft	\$	7,890.00 148.00
	Total Charges for 3 Aircraft	\$	8,334.00
Z E.	Revise instrument switching system.		
	Total Non-recurring Charges Recurring Charge per Aircraft	\$	3,161.00 465.00
	Total Charges for 3 Aircraft	\$	4,556.00
F.	Installation of integrally lit instruments.		
	Total non-recurring Charges Recurring Charge per Aircraft	\$	21,888.00 9,704.00
	Total Charges for 3 Aircraft	\$	51,000.00
√G.	Installation of bilingual signs (English/Portuguese)		
	Total non-recurring Charges Recurring Charge per Aircraft	\$	7,395.00 1,138.00
	Total Charges for 3 Aircraft	\$	10,809.00
	- Page Tro -		

CHANGE OFDER NO. 4

pursuant to

Article 5 of Purchase Agreement dated 12 August 1957 by and between

REAL S/A - Transportes Aereos and Empresa de Transportes Aerovias Brasil S/A and General Dynamics Corporation (Convair Division)

and

Amendment No. 4

to the aforesaid Agreement		
H. Installation of periscopic sextant provisions		
Total Non-recurring Charges Recurring Charge per Aircraft	\$	6,285.00 2,756.00
Total Charges for 3 Aircraft	\$	14,553.00
I. 75 Gallon tank in lieu of 50 gallon.		
Total Non-recurring Charges Recurring Charge per Aircraft	\$	243.00 530.00
Total Charges for 3 Aircraft	\$	1,833.00
J. Installation of REAL requested electronic equi	ipment.	
Total Non-recurring Charges Recurring Charge per Aircraft	\$	105,954.00
Total Charges for 3 Aircraft	\$	238,470.00
K. Paint Fin and fuselage top; also REAL markings (Enamel paint).	3	
		No Charge
L. REAL interior configuration including installs overseas equipment (Provisions for customer fubuffets).	ation o	f i
Total non-recurring Charges Recurring Charge per Aircraft	\$	115,518.00
Total Charges for 3 Aircraft	\$:	168,582.00
M. Standardization of all main system hydraulic partical depressurization and blocking valve	ownps	
Total non-recurring Charges Recurring Charge per Aircraft	\$	3,936.00 4 7 5.00
Total Charges for 3 Aircraft	\$	5,361.00
No. Improved soundproofing		
- Page three -		No Charge

- CHANGE ORDER NO. 4

purguant to

Article 5 of Purchase Agreement dated 12 August 1957 by and between

REAL S/A - Transportes Aereos and Empresa de Transportes Aerovias Brasil S/A and General Dynamics Corporation (Convair Division)

	and		
	Amendment 1	No. /	
	Wilstramente i	100 %	
-	to the aforesaid	i Agreement	
	O. Summary of the foregoing char	rges :	
	Total Non-recurring Charge		\$309,050.00 265,365,00
	Total Charges for 3	Miroraft	\$574,415,00
	VII. The Detail Specification Report I amended by changes herein described Specification Report No. ZD-30-00 be delivered to REAL within 30 de Order. Thereafter all references Detail Specification Report No. 2 be considered amended to "Detail dated 2 May 1960".	oed is hereby rede 08 dated 2 May 196 ays after executions in the Purchase AD-22-001 dated 1	signated "Detail 0", which shall on of this Change Agreement to June 1956 shall
		GENERAL DYNAMIC	S CORPORATION
		BY: /s/ B. C	oggan
		Title: Vice	President - Convair Div
	Accepted and Agreed to as of	6	
	this 17 day of May 1960.		
	REAL S/A - TRANSPORTES AEREOS		
	EY: /s/ Eduardo M. Alvarenga		
	Title: Director		

EMPRESA DE TRANSPORTES AEROVIAS BRASIL, S/A

BY: _/s/ Eduardo M. Alvarenga

Title: Director

REAL S/A-Transportes Aergas and

1 Amel 1960

Empresa De Transporten Aerestios Brasil 5 (A ***Revised: 21 April 1960

Sac Papie, Brand

SO No

600 .8.1

Estars to Amendment No. 4 W REAL Purchase 31. 000 Saylas igraement ded January 1960

(b) Sales Order Wo 880-12-1

CONVAIR 600 " REAL

SALE OF & CONVAIR 600 AMERICANT - REAL

(1) Veloresce (a) Amendment sats forth strangaments for the purchase by REAL. of the on (1) Convatr 500 (Model 30) aircraft in them of the three (3) Convatr 880 (A. ed.) 31) sererall authorized under Reference (b). Said afrecalt are to be remained in accordance with Detail Specification Report No. 21 30 010 (Maria top 4) dated 1 August 1958. Said pircraft are scheduled for dall years SHEET STATE

Maste of Del very	Number of Aircraft
JISSAG 1961	<u> </u>
July 1961	λ
August 1961	2

- (1) This is the Order authorized all departments conterned to proceed with the de rige, release and manufacture of three (A Convair 600 aircraft paramat f in agraps (1) above.
- This Talue Order will be revised to reflect changes now being accounted - the costorner
- (4) Changes requested by REALS
 - -75 gallon water tank in lieu of 50 gallon.

- Paint fin and fuseluge top; also REAL markings.

- Install supplemental oxygen masks for radio operator/mavigator.

> Install madic operator/navigation station in lieu of observers position.

- Install periscopie sextant provisions.

- Install integrally lighted instruments on forward instrument penals.

-Install Pioneer control rate-of-climb indicator in lieu of Kolimun.

D. H Digges

Manager of Cognanarcial Contracto

TO ALTE SAN DIEGO

SALES OFDER (Page 2)

Sold to:

REAL S/A-Transportes Aereos and

"Ravised: 1 April 1960

Empresa De Transportes Aerovias Brasil S/s Date: 7 January 1960

***Revised: 21 April 1960

Sao Paulo, Brasil

SO No: 600-8-1

Reference: Sume as Page One

WO No: 31,000 Saries

Paragraph (4, (Cont d)

- Install 4 Cil low pressure warning switches similar to 340/440 in lieu of hydramic electric.

- Install REAL requested electronic equipment (ADF to be basic).

- Install overseas provisions and squipment (Is a provision)

- Install bilingual signs (English/Portuguese)

- Revise instrument switching system.

- Electrical decompressurisation and blocking valves (Swissair MCL 61,070).

- Revision to noise level guarantee. Interior Arrangements:

- REAL has requested the seating arrangement as depicted in Convair Drawing SK-12160%; as revised, by sent change dated it April 1960
- All galley equipment is to be customer furnished.
- All seets (first-class and coach) are to be provided with plug-in food tray, as well as nexually provided folding food trays. Seats are to have

atewardess step on imboard triple seats, 45° reclining on first-class seats, extended arm rests on first class seats, tape in lieu of buttons for headrest cover attachemnts. First class seats to have energy absorption and adjustable

headrests; all seats to have foot rests (AAL type). Two (:) migazine racks are to be installed in rear compartment and one (1) in forwar

(5) Costs in connection with this Sales Order will be recovered by routine change orders

HD) of

Mevised to add Paregraph: (4) and (5)

conRevised to add revisions to Faragraph (4). 4772)

C O N V A I R A Division of General Dynamics Corporation (San Diego)

REAL MINUTES

No. 1 Model. 30-8

13 January 1960

Revised & Rewritten 21 April 1960

Reference:

(a) 8.0. 600-8-1, dated 7 January 1960, Rev. 21 April 1960

(b) CFO Serial No. 60-19, dated 1 February 1960, Rev. 6 April 1960 (c) MCL Serial No. 62,077-1, dated 24 March 1960, Rev. 19 April 1960

(d) CFO Serial No. 60-19 Addendum I, dated 11 April 1960, Rev.

21 April 1960

SALE OF 3 CONVAIR 600 AIRCRAFT - REAL

Reference (a) Sales Order sets forth arrangements for the purchase by REAL of three (3) Convair 600 (Model 30) aircraft in lieu of the three (3) Convair 880 (Model 31) aircraft authorised-under-Reference-(a): Said aircraft are to be manufactured in accordance with Datail Specification Report No. 2D-30-010 (Revision 4) dated 1 August 1958. Said aircraft are scheduled for delivery as follows:

Month of Delivery	Number of Aircraft
June 1961 July 1961 August 1961	1
July 1961	1
August 1961	1

These Minutes authorize Engineering to proceed with the design and release of three (3) Convair 600 aircraft pursuant to paragraph (1) above. Engineering will process EMO's required for the common release items, the changes listed in Eart (B) of reference (b) that are required to conform to Detail Specification 2D-30-010 including Revision No. 4 dated 16 November 1959 and REAL peculiar items as listed in Fart (A) of reference (b) and also reference (c) and (d).

Go sheed has been authorized by the Chief Engineer.

FES:JIC:

P. H. Sharp Project Engineer

RECEIVED

PROJECT

SPEC.